

BAY-830-90°



Light Output Ratio:	100.0%	
Luminaire Power:	8.153 W	
SHR Nominal:	0.75	Calculated using the TM5
SHR Maximum:	0.90	fine grid method.

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature: 25.3DEG  
Operators: Jason  
Test Date: 2020-06-09

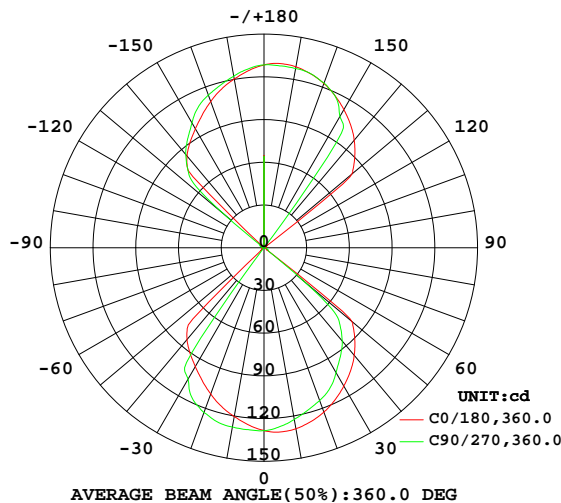
γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System: EVERFINE GO-2000\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 5.850m [K=1.7094]  
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

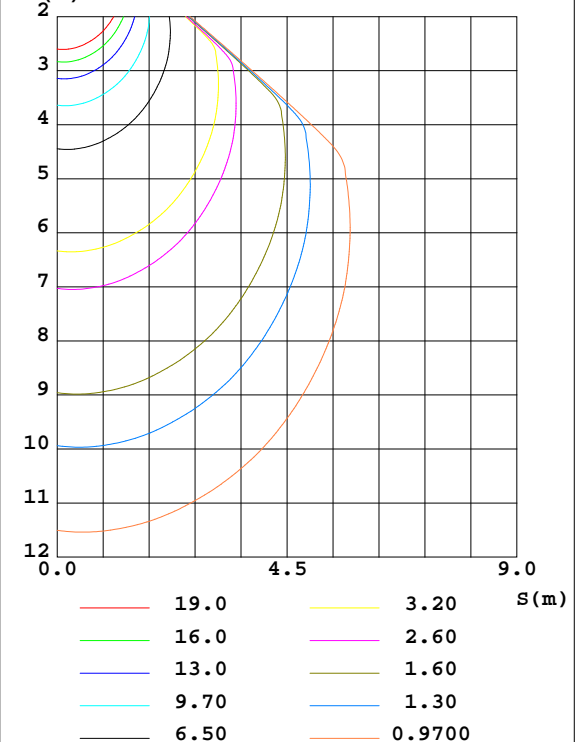
Test:U:221.0V I:0.0659A P:8.153W PF:0.5601 Freq:50.00Hz Lamp Flux:431.68x1 lm					
NAME: BAY-830-90°		TYPE: Recessed Ground Light		WEIGHT:	
SPEC.: 3000K		DIM.: L110mm*W95mm*H110mm		SERIAL No.:	
MFR.: NEKO LIGHTING AG		SUR.: L110mm*W95mm*H110mm		Shielding Angle:	

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 52.95 lm/W
MODEL	3000K	I <sub>max</sub> (cd)	130.2	S/MH(C0/180)	1.13	
NOMINAL POWER(W)	8	LOR(%)	100.0	S/MH(C90/270)	1.01	
RATED VOLTAGE(V)	220.0	TOTAL FLUX(lm)	431.68	η UP, DN(C0-180)	22.5, 27.7	
NOMINAL FLUX(lm)	431.68	CIE CLASS	DIFFUSE	η UP, DN(C180-360)	27.5, 22.3	
LAMPS INSIDE	1	η up(%)	50.0	CIBSE SHR NOM	0.75	
TEST VOLTAGE(V)	220.0	η down(%)	50.0	CIBSE SHR MAX	0.90	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature: 25.3DEG  
Operators: Jason  
Test Date: 2020-06-09

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System: EVERFINE GO-2000\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 5.850m [K=1.7094]  
Remarks:

### ZONAL FLUX DIAGRAM

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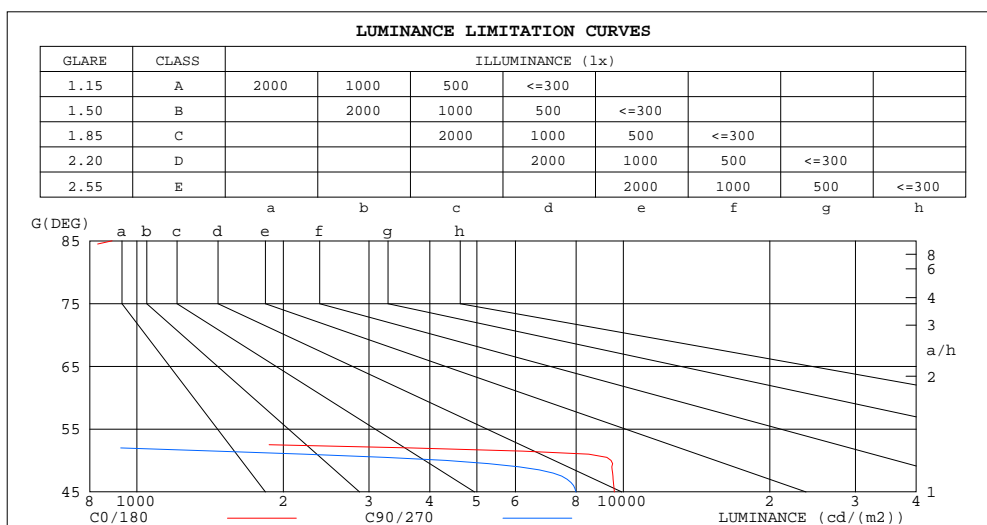
$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	$\Phi$ lum, lamp
10	129.1	126.4	122.4	120.8	120.4	122.5	127.9	130.0	0- 10	12.08	12.08	2.8,2.8
20	122.9	118.1	114.2	110.8	109.4	112.7	123.2	124.4	10- 20	34.28	46.36	10.7,10.7
30	112.1	107.1	101.3	97.51	96.50	100.4	106.7	112.7	20- 30	51.30	97.66	22.6,22.6
40	98.58	93.77	85.50	81.70	84.12	87.59	1.343	98.67	30- 40	57.66	155.3	36,36
50	80.63	75.64	36.94	63.50	2.287	1.253	0.7961	1.561	40- 50	44.57	199.9	46.3,46.3
60	1.748	43.29	3.546	2.614	1.790	0.6644	0.1575	1.152	50- 60	13.02	212.9	49.3,49.3
70	1.692	1.594	2.235	1.333	1.525	0.2907	0.1662	0.2525	60- 70	1.519	214.4	49.7,49.7
80	1.324	0.8929	0.9178	0.5534	0.6590	0.2756	0.0538	0.2277	70- 80	0.9453	215.4	49.9,49.9
90	0.7838	0.3087	0.2056	0.0415	0.0196	0.0657	0.2165	0.3474	80- 90	0.4581	215.8	50,50
100	1.324	0.2277	0.0538	0.2756	0.6590	0.5534	0.9178	0.8929	90-100	0.4581	216.3	50.1,50.1
110	1.692	0.2525	0.1662	0.2907	1.525	1.333	2.235	1.594	100-110	0.9453	217.2	50.3,50.3
120	1.748	1.152	0.1575	0.6644	1.790	2.614	3.546	43.29	110-120	1.519	218.8	50.7,50.7
130	80.63	1.561	0.7961	1.253	2.287	63.50	36.94	75.64	120-130	13.02	231.8	53.7,53.7
140	98.58	98.67	1.343	87.59	84.12	81.70	85.50	93.77	130-140	44.57	276.4	64,64
150	112.1	112.7	106.7	100.4	96.50	97.51	101.3	107.1	140-150	57.66	334.0	77.4,77.4
160	122.9	124.4	123.2	112.7	109.4	110.8	114.2	118.1	150-160	51.30	385.3	89.3,89.3
170	129.1	130.0	127.9	122.5	120.4	120.8	122.4	126.4	160-170	34.28	419.6	97.2,97.2
180	128.4	128.4	128.4	128.4	128.4	128.4	128.4	128.4	170-180	12.08	431.7	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:Jason  
Test Date:2020-06-09

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:5.850m [K=1.7094]  
Remarks:

**LUMINANCE LIMITATION CURVES**

Test:U:221.0V I:0.0659A P:8.153W PF:0.5601 Freq:50.00Hz Lamp Flux:431.68x1 lm		
NAME: BAY-830-90°	TYPE: Recessed Ground Light	WEIGHT:
SPEC.: 3000K	DIM.: L110mm*W95mm*H110mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.: L110mm*W95mm*H110mm	Shielding Angle:



LUMINANCE cd/(m2)		
G( DEG)	C0/180	C90/270
85	889	467
80	573	397
75	465	471
70	372	491
65	231	536
60	263	533
55	307	513
50	9431	4320
45	9586	7991

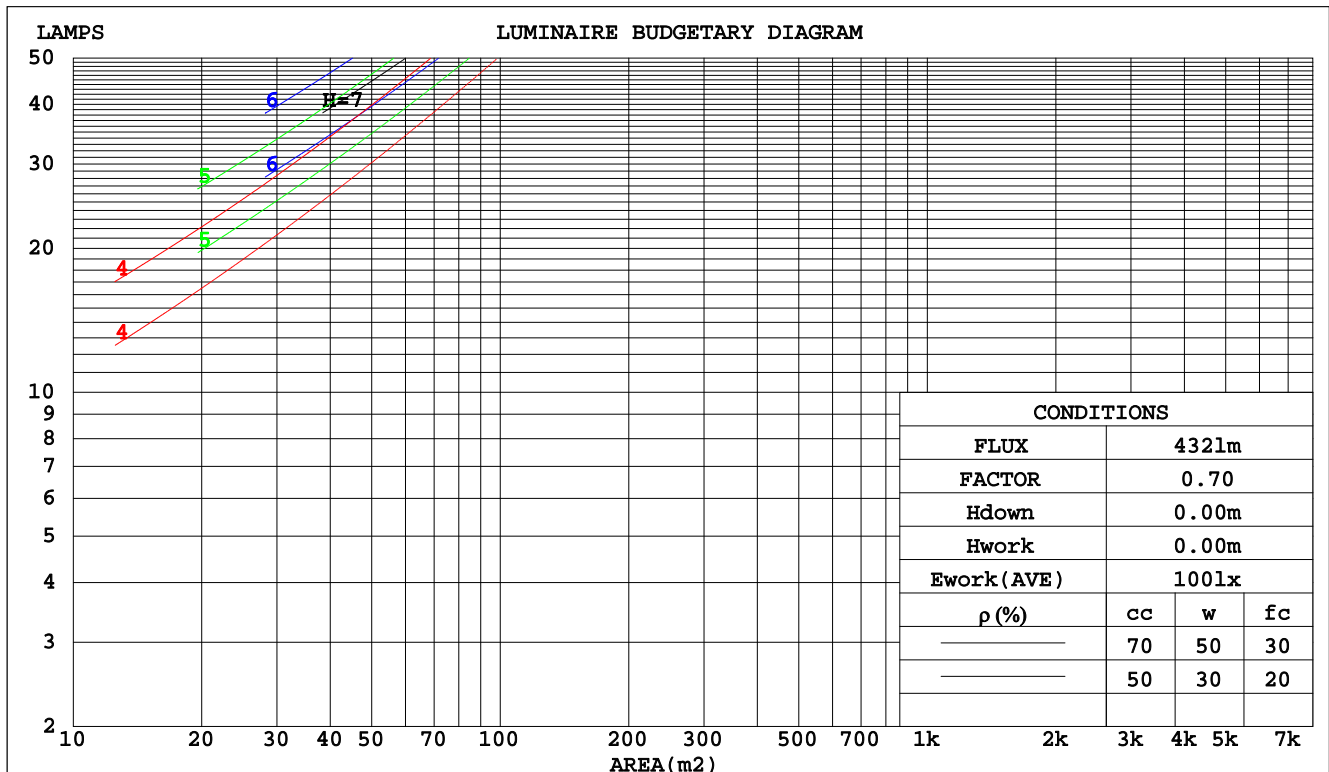
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γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System: EVERFINE GO-2000\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 5.850m [K=1.7094]  
Remarks:

**CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM**

Test:U:221.0V I:0.0659A P:8.153W PF:0.5601 Freq:50.00Hz Lamp Flux:431.68x1 lm		
NAME: BAY-830-90°	TYPE: Recessed Ground Light	WEIGHT:
SPEC.: 3000K	DIM.: L110mm*W95mm*H110mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.: L110mm*W95mm*H110mm	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.07	1.07	1.07	.99	.99	.99	.83	.83	.83	.69	.69	.69	.56	.56	.56	.50
1.0	.96	.93	.90	.89	.86	.83	.76	.74	.72	.63	.62	.61	.52	.51	.51	.45
2.0	.86	.80	.76	.80	.75	.71	.68	.65	.62	.58	.56	.54	.48	.47	.45	.41
3.0	.77	.70	.65	.72	.66	.62	.62	.58	.54	.53	.50	.47	.44	.42	.41	.37
4.0	.69	.62	.57	.65	.59	.54	.56	.51	.48	.48	.45	.42	.41	.38	.36	.33
5.0	.62	.55	.50	.58	.52	.47	.51	.46	.42	.44	.40	.38	.37	.35	.33	.30
6.0	.57	.49	.44	.53	.47	.42	.46	.42	.38	.40	.37	.34	.34	.32	.30	.27
7.0	.52	.44	.39	.48	.42	.37	.43	.38	.34	.37	.33	.30	.32	.29	.27	.24
8.0	.47	.40	.35	.44	.38	.34	.39	.34	.31	.34	.30	.28	.29	.27	.25	.22
9.0	.43	.36	.32	.41	.35	.30	.36	.31	.28	.32	.28	.25	.27	.25	.22	.20
10.0	.40	.33	.29	.38	.32	.28	.33	.29	.25	.29	.26	.23	.26	.23	.21	.19



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
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Temperature: 25.3DEG  
Operators: Jason  
Test Date: 2020-06-09

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System: EVERFINE GO-2000\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 5.850m [K=1.7094]  
Remarks:

## WEC AND CCEC

Test:U:221.0V I:0.0659A P:8.153W PF:0.5601 Freq:50.00Hz Lamp Flux:431.68x1 lm		
NAME: BAY-830-90°	TYPE: Recessed Ground Light	WEIGHT:
SPEC.: 3000K	DIM.: L110mm*W95mm*H110mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.: L110mm*W95mm*H110mm	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.235	.133	.042	.213	.121	.039	.171	.098	.031	.134	.077	.025	.099	.057	.018		
2.0	.221	.121	.037	.202	.111	.034	.164	.091	.028	.130	.073	.023	.098	.055	.017		
3.0	.208	.111	.033	.190	.102	.031	.156	.085	.026	.125	.068	.021	.095	.053	.016		
4.0	.196	.102	.030	.179	.094	.028	.148	.078	.023	.119	.064	.019	.092	.050	.015		
5.0	.184	.094	.027	.169	.087	.025	.140	.073	.021	.113	.060	.018	.088	.047	.014		
6.0	.173	.087	.025	.159	.081	.023	.133	.068	.020	.108	.056	.016	.085	.045	.013		
7.0	.164	.081	.023	.151	.075	.021	.126	.064	.018	.103	.053	.015	.081	.042	.012		
8.0	.155	.076	.021	.143	.070	.020	.120	.060	.017	.098	.050	.014	.078	.040	.012		
9.0	.146	.071	.020	.135	.066	.018	.114	.056	.016	.093	.047	.013	.074	.038	.011		
10.0	.139	.067	.018	.128	.062	.017	.108	.053	.015	.089	.044	.013	.071	.036	.010		

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.571	.571	.571	.488	.488	.488	.333	.333	.333	.191	.191	.191	.061	.061	.061	
1.0	.559	.541	.524	.478	.464	.451	.327	.319	.312	.188	.185	.182	.060	.059	.059	
2.0	.550	.519	.493	.471	.447	.426	.323	.309	.297	.186	.180	.174	.060	.058	.057	
3.0	.541	.503	.472	.464	.434	.409	.319	.301	.287	.184	.176	.169	.059	.057	.055	
4.0	.534	.490	.457	.458	.424	.397	.315	.295	.279	.182	.173	.165	.059	.056	.054	
5.0	.528	.481	.446	.453	.416	.388	.312	.290	.274	.181	.171	.162	.058	.056	.054	
6.0	.522	.473	.438	.448	.410	.381	.309	.287	.270	.179	.169	.160	.058	.055	.053	
7.0	.516	.467	.432	.444	.404	.376	.307	.284	.267	.178	.167	.159	.058	.055	.053	
8.0	.511	.461	.427	.440	.400	.373	.304	.281	.264	.177	.166	.158	.057	.054	.052	
9.0	.506	.457	.424	.436	.397	.370	.302	.279	.263	.176	.165	.157	.057	.054	.052	
10.0	.501	.453	.421	.432	.394	.367	.300	.277	.261	.175	.164	.156	.057	.054	.052	

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature: 25.3DEG  
Operators: Jason  
Test Date: 2020-06-09

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System: EVERFINE GO-2000\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 5.850m [K=1.7094]  
Remarks:

## UGR(Unified Glare Rating) Table

Test:U:221.0V I:0.0659A P:8.153W PF:0.5601 Freq:50.00Hz Lamp Flux:431.68x1 lm										
NAME: BAY-830-90°					TYPE:Recessed Ground Light			WEIGHT:		
SPEC.:3000K					DIM.: L110mm*W95mm*H110mm			SERIAL No.:		
MFR.: NEKO LIGHTING AG					SUR.:L110mm*W95mm*H110mm			Shielding Angle:		
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise				Viewed endwise				
x = 2H y = 2H	18.6	19.4	19.4	20.2	21.3	18.0	18.8	18.9	19.7	20.7
	3H	18.2	19.0	19.1	19.8	20.9	17.7	18.5	18.6	19.3
	4H	18.1	18.8	19.0	19.6	20.8	17.6	18.3	18.5	19.1
	6H	17.9	18.6	18.8	19.5	20.6	17.4	18.0	18.3	18.9
	8H	17.9	18.5	18.8	19.4	20.5	17.3	17.9	18.3	18.8
12H	17.8	18.4	18.7	19.3	20.4	17.2	17.8	18.2	18.7	19.9
4H	2H	18.4	19.1	19.3	20.0	21.1	17.9	18.6	18.8	19.5
	3H	18.1	18.7	19.0	19.6	20.7	17.6	18.2	18.6	19.1
	4H	17.9	18.4	18.9	19.4	20.6	17.5	18.0	18.4	18.9
	6H	17.8	18.2	18.8	19.2	20.4	17.3	17.8	18.3	18.7
	8H	17.7	18.1	18.7	19.1	20.3	17.2	17.6	18.2	18.6
12H	17.6	18.0	18.6	19.0	20.3	17.2	17.5	18.1	18.5	19.8
8H	4H	17.7	18.1	18.6	19.0	20.3	17.2	17.6	18.2	18.6
	6H	17.5	17.8	18.5	18.8	20.1	17.1	17.4	18.1	18.4
	8H	17.5	17.7	18.5	18.7	20.1	17.0	17.3	18.0	18.3
	12H	17.4	17.6	18.4	18.7	20.0	16.9	17.1	17.9	18.2
	19.5									
12H	4H	17.6	17.9	18.6	18.9	20.2	17.1	17.5	18.1	18.5
	6H	17.4	17.7	18.4	18.7	20.0	17.0	17.2	18.0	18.3
	8H	17.4	17.6	18.4	18.6	20.0	16.9	17.1	17.9	18.1
19.5										
Variations with the observer position at spacings:										
S = 1.0H	+ 2.3 / - 8.9					+ 2.4 / - 8.6				
1.5H	+ 1.3 / - 5.1					+ 1.9 / - 9.1				
2.0H	+ 3.6 / -11.9					+ 3.7 / -11.7				

CIE Pub.117, 431.7 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -2.9)

C Range: 0 - 360DEG  
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Test Speed: MEDIUM  
Temperature: 25.3DEG  
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Test Date: 2020-06-09

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System: EVERFINE GO-2000\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 5.850m [K=1.7094]  
Remarks:

### UTILIZATION FACTORS TABLE

Test:U:221.0V I:0.0659A P:8.153W PF:0.5601 Freq:50.00Hz Lamp Flux:431.68x1 lm		
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MFR.: NEKO LIGHTING AG	SUR.: L110mm*W95mm*H110mm	Shielding Angle:

REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	52	43	38	50	42	37	45	38	35	27
0.80	62	52	46	58	50	45	52	46	42	32
1.00	69	60	54	65	57	52	58	52	48	36
1.25	75	66	60	71	63	58	62	57	53	39
1.50	80	71	65	75	67	62	65	60	56	41
2.00	86	78	73	80	74	69	69	65	61	43
2.50	89	82	77	83	77	73	72	68	64	44
3.00	92	86	81	85	80	76	73	70	67	45
4.00	95	90	86	88	84	81	76	73	70	46
5.00	98	93	89	90	87	84	77	75	72	47
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004					Suspended			SHRNOM = 1.25		

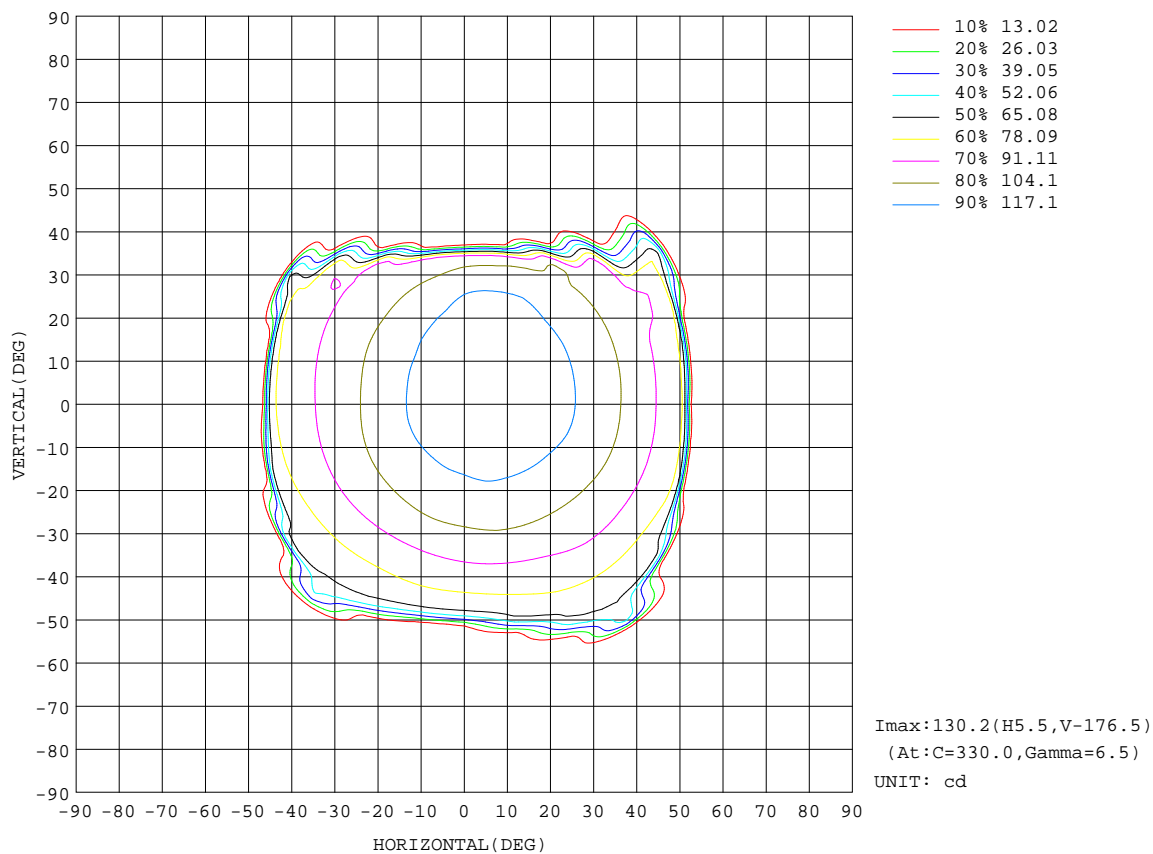
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 Humidity: 65.0%  
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 Remarks:



ISOCANDELA DIAGRAM

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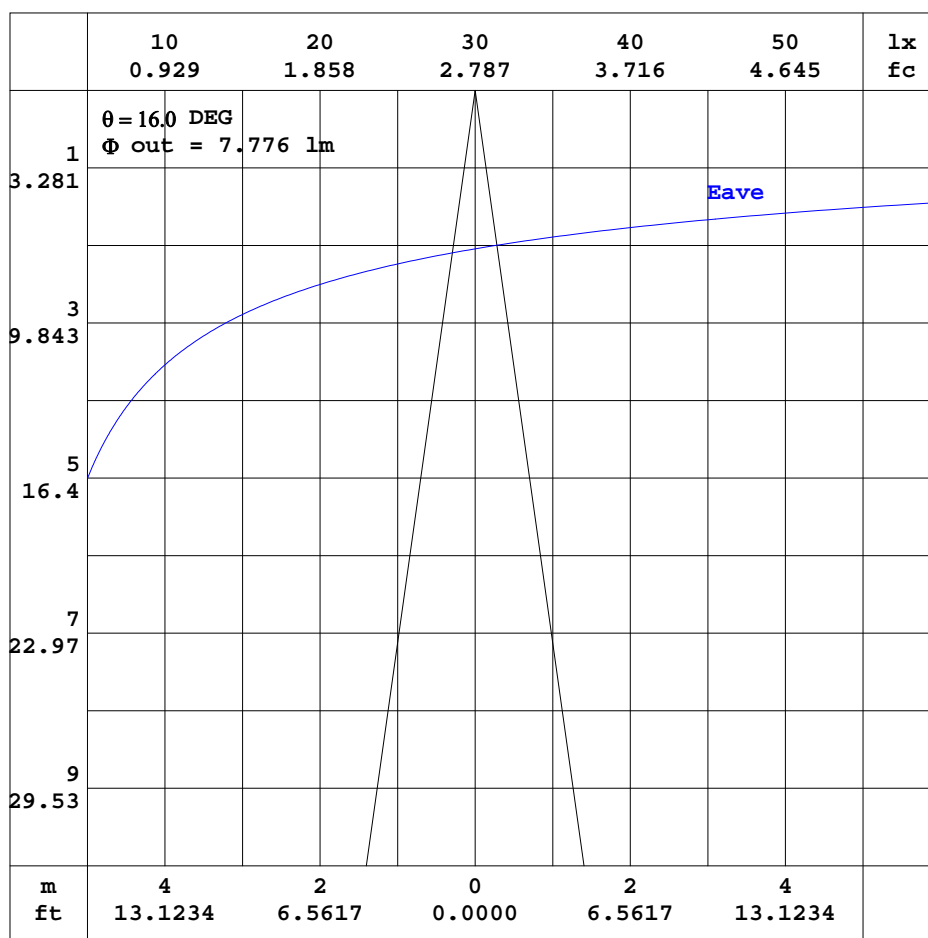


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AAI CURVES

Test:U:221.0V I:0.0659A P:8.153W PF:0.5601 Freq:50.00Hz Lamp Flux:431.68x1 lm		
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MFR.: NEKO LIGHTING AG	SUR.: L110mm*W95mm*H110mm	Shielding Angle:



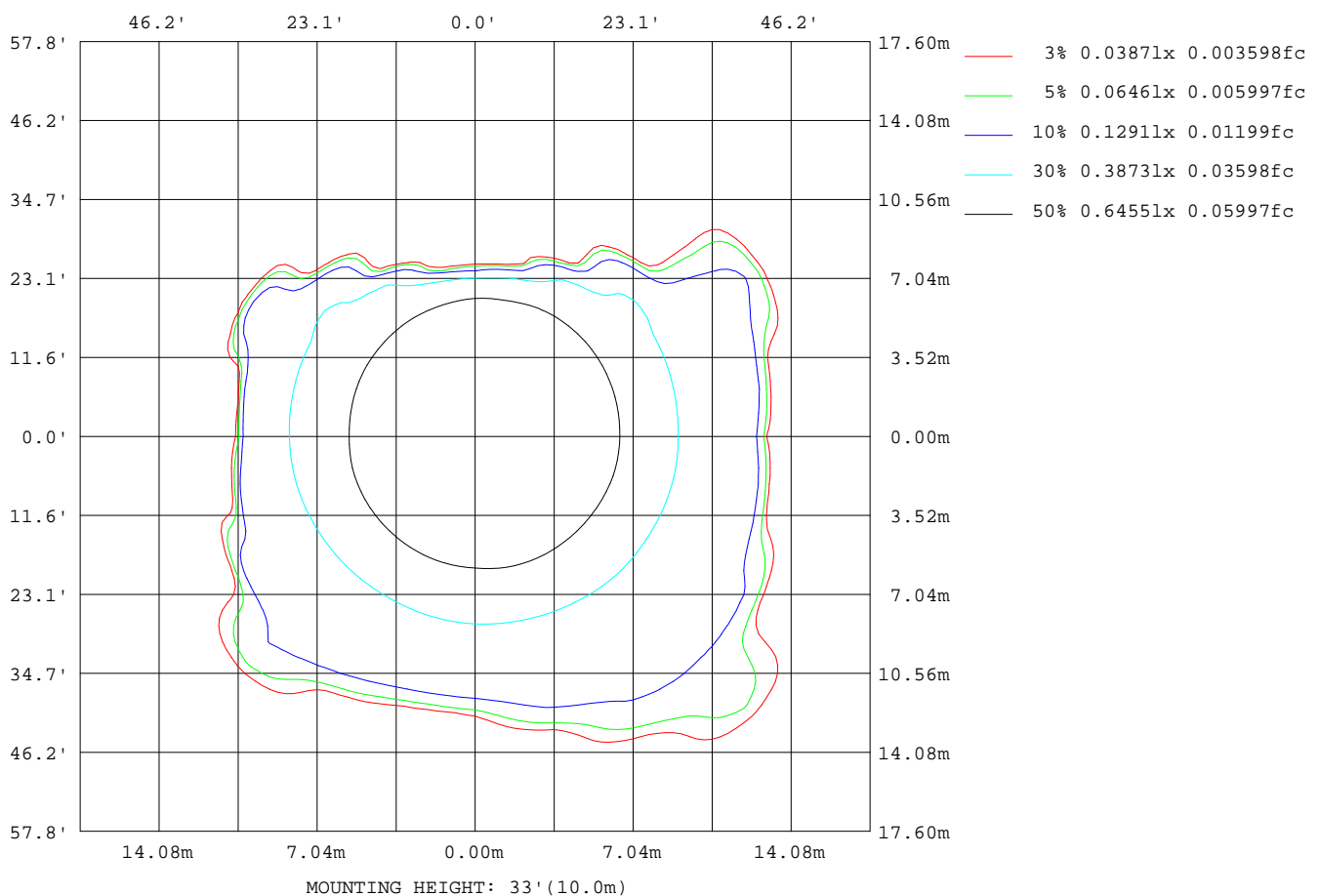
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature: 25.3DEG  
Operators: Jason  
Test Date: 2020-06-09

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System: EVERFINE GO-2000\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 5.850m [K=1.7094]  
Remarks:

ISOLUX DIAGRAM

Test:U:221.0V I:0.0659A P:8.153W PF:0.5601 Freq:50.00Hz Lamp Flux:431.68x1 lm		
NAME: BAY-830-90°	TYPE: Recessed Ground Light	WEIGHT:
SPEC.: 3000K	DIM.: L110mm*W95mm*H110mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.: L110mm*W95mm*H110mm	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature: 25.3DEG  
Operators: Jason  
Test Date: 2020-06-09

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System: EVERFINE GO-2000\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 5.850m [K=1.7094]  
Remarks:

### LED Avg.L Report

Test:U:221.0V I:0.0659A P:8.153W PF:0.5601 Freq:50.00Hz Lamp Flux:431.68x1 lm		
NAME: BAY-830-90°	TYPE:Recessed Ground Light	WEIGHT:
SPEC.:3000K	DIM.: L110mm*W95mm*H110mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.:L110mm*W95mm*H110mm	Shielding Angle:

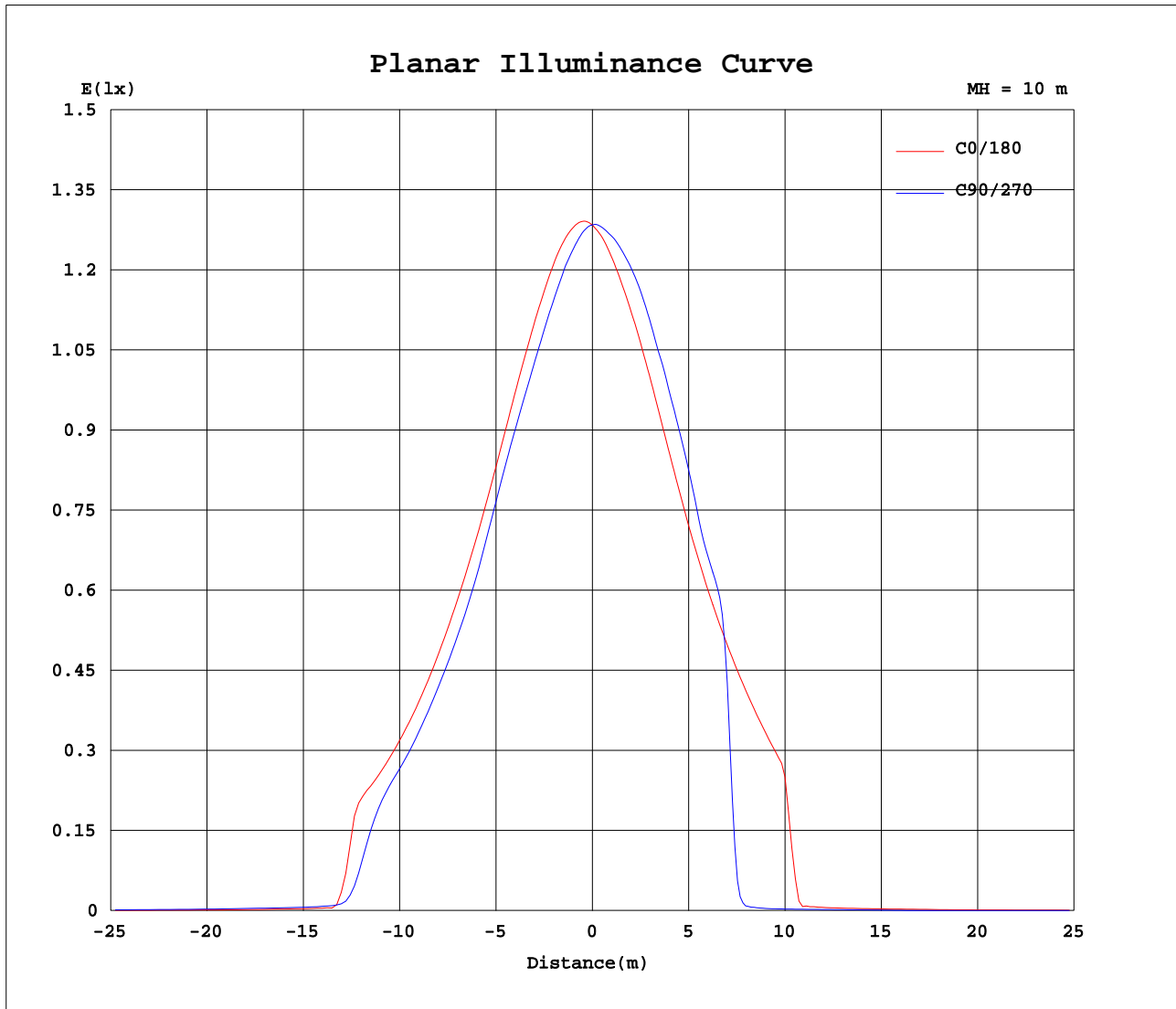
AvgL	cd/m2
L_0~180(65)av	248
L_0~180(75)av	381
L_0~180(85)av	609
L_90~270(65)av	283
L_90~270(75)av	242
L_90~270(85)av	306
L_45(65)av	237
L_45(75)av	210
L_45(85)av	262

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:Jason  
Test Date:2020-06-09

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:5.850m [K=1.7094]  
Remarks:

### Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature: 25.3DEG  
Operators: Jason  
Test Date: 2020-06-09

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System: EVERFINE GO-2000\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 5.850m [K=1.7094]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:221.0V I:0.0659A P:8.153W PF:0.5601 Freq:50.00Hz Lamp Flux:431.68x1 lm		
NAME: BAY-830-90°	TYPE: Recessed Ground Light	WEIGHT:
SPEC.: 3000K	DIM.: L110mm*W95mm*H110mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.: L110mm*W95mm*H110mm	Shielding Angle:

Table--1

UNIT: cd

C(°) \ γ (°)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128
5	130	130	130	130	130	130	129	129	129	129	129	128	128	128	127	127	127	126	126
10	129	129	129	128	128	128	127	127	127	126	126	126	125	125	124	124	123	123	122
15	126	126	126	126	125	125	124	123	123	122	122	121	121	121	120	120	119	119	118
20	123	123	122	122	121	121	120	119	119	118	118	117	117	116	116	116	115	115	114
25	118	118	117	117	116	115	115	114	113	113	112	112	112	112	112	111	111	110	109
30	112	112	112	111	111	110	109	108	108	107	107	106	106	105	105	104	103	102	101
35	106	106	105	105	104	104	103	102	102	101	99.9	98.9	98.0	97.2	96.4	95.7	94.9	94.2	93.5
40	98.6	98.5	98.3	97.9	97.3	96.6	95.8	95.2	94.5	93.8	92.6	91.4	90.1	89.1	88.3	87.5	86.8	86.1	85.5
45	90.2	90.1	89.9	89.4	88.6	87.8	86.9	86.5	86.1	85.7	84.9	83.9	82.7	81.3	79.8	78.3	77.0	76.0	75.2
50	80.6	80.6	80.3	79.8	78.8	77.7	76.6	76.2	76.0	75.6	75.2	74.4	73.2	72.1	69.9	65.9	56.2	45.9	36.9
55	2.34	0.00	0.00	3.03	17.1	33.4	49.2	58.1	63.6	65.9	65.3	61.1	53.3	37.3	20.4	5.55	2.07	2.07	3.92
60	1.75	1.91	2.05	2.19	0.31	0.00	2.52	17.6	32.6	43.3	33.1	18.5	3.75	1.25	1.68	3.58	3.55	3.55	3.55
65	1.30	1.37	1.44	1.51	1.57	1.65	1.75	1.91	2.10	2.30	2.51	2.71	2.88	2.99	3.05	3.09	3.08	3.05	3.01
70	1.69	1.74	1.75	1.73	1.65	1.56	1.49	1.47	1.50	1.59	1.81	2.05	2.28	2.42	2.50	2.52	2.45	2.34	2.24
75	1.60	1.63	1.64	1.64	1.62	1.58	1.54	1.47	1.40	1.36	1.36	1.39	1.44	1.54	1.64	1.72	1.71	1.67	1.62
80	1.32	1.34	1.34	1.33	1.31	1.27	1.21	1.10	0.98	0.89	0.88	0.90	0.94	1.00	1.05	1.09	1.05	0.99	0.92
85	1.03	1.03	1.01	0.98	0.93	0.88	0.81	0.71	0.62	0.55	0.54	0.55	0.57	0.58	0.58	0.59	0.58	0.56	0.54
90	0.78	0.79	0.77	0.73	0.65	0.56	0.48	0.41	0.36	0.31	0.25	0.20	0.17	0.19	0.00	0.00	0.24	0.22	0.21
95	1.03	0.97	0.90	0.82	0.71	0.59	0.48	0.38	0.29	0.22	0.20	0.19	0.20	0.23	0.26	0.27	0.25	0.21	0.17
100	1.32	1.18	1.04	0.91	0.77	0.64	0.52	0.41	0.31	0.23	0.16	0.11	0.07	0.06	0.06	0.06	0.06	0.05	0.05
105	1.60	1.42	1.25	1.07	0.89	0.72	0.57	0.43	0.32	0.24	0.18	0.14	0.12	0.11	0.10	0.09	0.07	0.06	0.05
110	1.69	1.41	1.16	0.94	0.76	0.60	0.48	0.37	0.30	0.25	0.27	0.31	0.34	0.32	0.28	0.24	0.21	0.18	0.17
115	1.30	1.18	1.06	0.94	0.81	0.69	0.60	0.62	0.66	0.69	0.59	0.48	0.36	0.31	0.27	0.24	0.20	0.18	0.16
120	1.75	1.59	1.44	1.30	1.12	0.97	0.88	0.96	1.07	1.15	1.06	0.92	0.75	0.57	0.40	0.26	0.19	0.16	0.16
125	2.34	0.00	0.00	2.02	22.2	42.3	56.3	41.9	21.5	1.16	0.00	0.00	0.97	0.92	0.87	0.81	0.74	0.68	0.63
130	80.6	80.9	81.3	81.7	86.3	87.8	83.2	57.1	27.9	1.56	0.00	0.00	0.99	0.92	0.89	0.87	0.84	0.81	0.80
135	90.2	90.4	90.7	91.0	92.6	93.2	92.1	88.3	81.0	69.4	46.2	22.1	1.29	0.00	0.00	0.92	0.87	0.85	0.85
140	98.6	98.9	99.2	99.4	99.7	99.8	99.9	102	102	98.7	84.1	66.0	46.6	29.0	13.5	1.66	0.00	0.00	1.34
145	106	106	106	106	107	107	107	107	106	106	106	105	104	102	99.8	96.4	89.5	82.8	77.6
150	112	112	112	113	113	113	113	113	113	113	113	114	114	113	111	109	108	107	107
155	118	118	118	118	119	119	119	119	119	119	120	120	120	121	121	121	120	119	118
160	123	123	123	124	124	124	125	125	124	124	125	125	125	125	125	125	125	124	123
165	126	127	127	127	128	128	128	128	128	128	129	129	129	129	128	128	128	127	127
170	129	129	129	130	130	130	130	130	130	130	130	130	130	130	129	129	129	128	128
175	130	130	130	130	130	130	130	130	130	130	130	130	130	129	129	129	129	128	128
180	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature: 25.3DEG  
Operators: Jason  
Test Date: 2020-06-09

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System: EVERFINE GO-2000\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 5.850m [K=1.7094]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:221.0V I:0.0659A P:8.153W PF:0.5601 Freq:50.00Hz Lamp Flux:431.68x1 lm		
NAME: BAY-830-90°	TYPE: Recessed Ground Light	WEIGHT:
SPEC.: 3000K	DIM.: L110mm*W95mm*H110mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.: L110mm*W95mm*H110mm	Shielding Angle:

Table--2

UNIT: cd

C(°) \ γ (°)	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185
0	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128
5	126	126	126	126	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125
10	122	122	122	121	121	121	121	121	121	121	121	121	121	121	121	121	120	120	120
15	118	118	117	117	117	117	116	116	116	116	116	116	116	116	116	115	115	115	115
20	114	113	113	113	112	112	111	111	111	111	110	110	110	110	110	110	109	109	109
25	109	108	108	107	106	106	105	105	105	104	104	104	104	104	103	103	103	103	103
30	101	100	99.9	99.4	98.9	98.4	98.1	97.8	97.5	97.3	97.2	97.1	97.1	97.1	97.0	96.8	96.6	96.5	96.7
35	92.8	92.2	91.6	91.1	90.6	90.2	90.0	89.9	89.9	89.9	90.0	90.1	90.2	90.3	90.4	90.4	90.5	90.6	90.9
40	84.8	84.1	83.5	82.8	82.2	81.7	81.6	81.6	81.7	81.7	81.8	82.0	82.4	83.0	83.5	83.7	83.9	84.1	84.5
45	74.8	74.6	74.5	74.0	73.6	73.2	73.0	73.0	72.9	72.9	72.9	73.0	73.7	74.3	74.6	73.2	71.7	70.6	72.0
50	34.0	33.9	36.5	42.7	50.0	57.0	60.9	63.1	63.5	62.8	59.3	52.4	36.0	18.5	3.21	0.00	0.19	2.29	1.51
55	3.84	3.89	4.02	2.46	2.13	4.25	16.6	28.9	37.4	28.4	15.6	2.75	0.48	0.75	2.29	2.16	2.03	1.91	1.76
60	3.57	3.58	3.57	3.49	3.37	3.22	3.03	2.82	2.61	2.42	2.25	2.11	2.05	2.02	1.99	1.94	1.88	1.79	1.64
65	3.01	2.99	2.95	2.86	2.73	2.57	2.33	2.08	1.85	1.74	1.67	1.63	1.61	1.60	1.59	1.58	1.55	1.49	1.37
70	2.22	2.21	2.19	2.10	1.98	1.84	1.66	1.48	1.33	1.28	1.28	1.31	1.40	1.50	1.58	1.61	1.60	1.52	1.34
75	1.58	1.54	1.47	1.36	1.24	1.13	1.05	0.99	0.95	0.94	0.95	0.97	1.02	1.07	1.11	1.10	1.07	1.02	0.97
80	0.87	0.81	0.76	0.69	0.63	0.57	0.55	0.55	0.55	0.57	0.59	0.62	0.65	0.68	0.71	0.70	0.68	0.66	0.65
85	0.51	0.46	0.42	0.38	0.34	0.31	0.31	0.32	0.33	0.34	0.35	0.36	0.36	0.37	0.37	0.38	0.38	0.38	0.37
90	0.19	0.16	0.00	0.00	0.09	0.07	0.05	0.05	0.04	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
95	0.14	0.12	0.11	0.10	0.10	0.10	0.10	0.10	0.11	0.12	0.13	0.15	0.20	0.26	0.32	0.35	0.37	0.38	0.38
100	0.06	0.06	0.07	0.06	0.06	0.07	0.13	0.20	0.28	0.36	0.43	0.50	0.55	0.59	0.62	0.64	0.65	0.66	0.68
105	0.06	0.08	0.10	0.10	0.11	0.13	0.19	0.27	0.35	0.42	0.48	0.56	0.66	0.76	0.85	0.92	0.97	1.02	1.07
110	0.15	0.15	0.16	0.21	0.26	0.31	0.30	0.29	0.29	0.33	0.39	0.47	0.59	0.74	0.91	1.13	1.34	1.52	1.60
115	0.17	0.18	0.20	0.23	0.27	0.32	0.38	0.44	0.50	0.52	0.55	0.60	0.73	0.89	1.06	1.22	1.37	1.49	1.55
120	0.17	0.20	0.24	0.29	0.35	0.43	0.51	0.59	0.66	0.70	0.73	0.79	0.93	1.10	1.29	1.47	1.64	1.79	1.88
125	0.62	0.64	0.69	0.79	0.90	0.99	0.97	0.93	0.89	0.89	0.93	1.00	1.13	1.28	1.45	1.61	1.76	1.91	2.03
130	0.82	0.86	0.91	0.94	0.97	1.01	0.46	0.40	1.25	5.93	10.6	13.9	10.8	6.35	1.89	1.23	1.51	2.29	0.19
135	0.87	0.91	0.97	0.00	0.00	1.20	7.41	16.5	28.3	46.5	64.4	79.2	81.5	79.9	76.0	73.9	72.0	70.6	71.7
140	0.57	0.43	1.53	3.41	8.46	18.0	41.4	66.1	87.6	91.8	90.7	87.0	86.6	86.0	85.5	85.0	84.5	84.1	83.9
145	78.4	81.3	85.4	89.3	93.0	95.9	96.1	95.4	94.2	93.8	93.4	93.0	92.6	92.1	91.6	91.2	90.9	90.6	90.5
150	106	105	104	104	103	102	102	101	100	99.9	99.4	99.0	98.4	97.9	97.4	97.0	96.7	96.5	96.6
155	116	114	112	111	110	109	108	107	107	106	106	105	105	104	104	103	103	103	103
160	122	120	119	118	116	115	114	113	113	112	112	111	111	110	110	110	109	109	109
165	126	125	124	123	122	121	120	119	118	118	117	117	116	116	116	116	115	115	115
170	127	127	126	125	125	124	124	123	123	122	122	121	121	121	121	121	120	120	120
175	128	128	127	127	127	127	126	126	126	126	126	126	125	125	125	125	125	125	125
180	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature: 25.3DEG  
Operators: Jason  
Test Date: 2020-06-09

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System: EVERFINE GO-2000\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 5.850m [K=1.7094]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:221.0V I:0.0659A P:8.153W PF:0.5601 Freq:50.00Hz Lamp Flux:431.68x1 lm		
NAME: BAY-830-90°	TYPE: Recessed Ground Light	WEIGHT:
SPEC.: 3000K	DIM.: L110mm*W95mm*H110mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.: L110mm*W95mm*H110mm	Shielding Angle:

Table--3

UNIT: cd

C(°) \ γ (°)	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128
5	125	125	125	125	126	126	126	126	126	126	127	127	127	127	128	128	128	128	129
10	121	121	121	121	121	122	122	123	123	124	124	125	125	126	127	127	128	128	129
15	116	116	116	116	117	117	118	118	119	120	121	122	123	124	125	126	127	127	128
20	110	110	110	111	111	112	112	113	113	114	115	116	118	119	120	122	123	124	125
25	103	104	104	105	105	106	106	107	107	108	109	110	111	112	114	116	118	119	120
30	97.0	97.4	97.9	98.4	99.0	99.4	99.9	100	101	102	102	103	104	104	105	106	107	107	108
35	91.2	91.6	92.1	92.6	93.0	93.4	93.8	94.2	95.4	96.1	95.9	93.0	89.3	85.4	81.3	78.4	77.6	82.8	89.5
40	85.0	85.5	86.0	86.6	87.0	90.7	91.8	87.6	66.1	41.4	18.0	8.46	3.41	1.53	0.43	0.57	1.34	0.00	0.00
45	73.9	76.0	79.9	81.5	79.2	64.4	46.5	28.3	16.5	7.41	1.20	0.00	0.00	0.97	0.91	0.87	0.85	0.85	0.87
50	1.23	1.89	6.35	10.8	13.9	10.6	5.93	1.25	0.40	0.46	1.01	0.97	0.94	0.91	0.86	0.82	0.80	0.81	0.84
55	1.61	1.45	1.28	1.13	1.00	0.93	0.89	0.89	0.93	0.97	0.99	0.90	0.79	0.69	0.64	0.62	0.63	0.68	0.74
60	1.47	1.29	1.10	0.93	0.79	0.73	0.70	0.66	0.59	0.51	0.43	0.35	0.29	0.24	0.20	0.17	0.16	0.16	0.19
65	1.22	1.06	0.89	0.73	0.60	0.55	0.52	0.50	0.44	0.38	0.32	0.27	0.23	0.20	0.18	0.17	0.16	0.18	0.20
70	1.13	0.91	0.74	0.59	0.47	0.39	0.33	0.29	0.29	0.30	0.31	0.26	0.21	0.16	0.15	0.15	0.17	0.18	0.21
75	0.92	0.85	0.76	0.66	0.56	0.48	0.42	0.35	0.27	0.19	0.13	0.11	0.10	0.10	0.08	0.06	0.05	0.06	0.07
80	0.64	0.62	0.59	0.55	0.50	0.43	0.36	0.28	0.20	0.13	0.07	0.06	0.06	0.07	0.06	0.06	0.05	0.05	0.06
85	0.35	0.32	0.26	0.20	0.15	0.13	0.12	0.11	0.10	0.10	0.10	0.10	0.10	0.11	0.12	0.14	0.17	0.21	0.25
90	0.02	0.03	0.03	0.03	0.03	0.04	0.05	0.07	0.07	0.07	0.09	0.12	0.15	0.18	0.19	0.20	0.22	0.25	0.29
95	0.38	0.37	0.37	0.36	0.36	0.35	0.34	0.33	0.32	0.31	0.31	0.34	0.38	0.42	0.46	0.51	0.54	0.56	0.58
100	0.70	0.71	0.68	0.65	0.62	0.59	0.57	0.55	0.55	0.55	0.57	0.63	0.69	0.76	0.81	0.87	0.92	0.99	1.05
105	1.10	1.11	1.07	1.02	0.97	0.95	0.94	0.95	0.99	1.05	1.13	1.24	1.36	1.47	1.54	1.58	1.62	1.67	1.71
110	1.61	1.58	1.50	1.40	1.31	1.28	1.28	1.33	1.48	1.66	1.84	1.98	2.10	2.19	2.21	2.22	2.24	2.34	2.45
115	1.58	1.59	1.60	1.61	1.63	1.67	1.74	1.85	2.08	2.33	2.57	2.73	2.86	2.95	2.99	3.01	3.01	3.05	3.08
120	1.94	1.99	2.02	2.05	2.11	2.25	2.42	2.61	2.82	3.03	3.22	3.37	3.49	3.57	3.58	3.57	3.55	3.55	3.55
125	2.16	2.29	0.75	0.48	2.75	15.6	28.4	37.4	28.9	16.6	4.25	2.13	2.46	4.02	3.89	3.84	3.92	2.07	2.07
130	0.00	3.21	18.5	36.0	52.4	59.3	62.8	63.5	63.1	60.9	57.0	50.0	42.7	36.5	33.9	34.0	36.9	45.9	56.2
135	73.2	74.6	74.3	73.7	73.0	72.9	72.9	72.9	73.0	73.0	73.2	73.6	74.0	74.5	74.6	74.8	75.2	76.0	77.0
140	83.7	83.5	83.0	82.4	82.0	81.8	81.7	81.7	81.6	81.6	81.7	82.2	82.8	83.5	84.1	84.8	85.5	86.1	86.8
145	90.4	90.4	90.3	90.2	90.1	90.0	89.9	89.9	89.9	90.0	90.2	90.6	91.1	91.6	92.2	92.8	93.5	94.2	94.9
150	96.8	97.0	97.1	97.1	97.1	97.2	97.3	97.5	97.8	98.1	98.4	98.9	99.4	99.9	100	101	101	102	103
155	103	103	104	104	104	104	104	105	105	105	106	106	107	108	108	109	109	110	111
160	110	110	110	110	110	110	111	111	111	111	112	112	113	113	113	114	114	115	115
165	115	116	116	116	116	116	116	116	116	116	117	117	117	117	118	118	118	119	119
170	121	121	121	121	121	121	121	121	121	121	121	121	121	122	122	122	122	123	123
175	125	125	125	125	125	125	125	125	125	125	125	125	126	126	126	126	126	126	127
180	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature: 25.3DEG  
Operators: Jason  
Test Date: 2020-06-09

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System: EVERFINE GO-2000\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 5.850m [K=1.7094]  
Remarks:



## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:221.0V I:0.0659A P:8.153W PF:0.5601 Freq:50.00Hz Lamp Flux:431.68x1 lm		
NAME: BAY-830-90°	TYPE: Recessed Ground Light	WEIGHT:
SPEC.: 3000K	DIM.: L110mm*W95mm*H110mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.: L110mm*W95mm*H110mm	Shielding Angle:

Table--4

UNIT: cd

C(°) \ γ (°)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128				
5	129	129	129	130	130	130	130	130	130	130	130	130	130	130	130				
10	129	129	130	130	130	130	130	130	130	130	130	130	130	130	129	129			
15	128	128	129	129	129	129	128	128	128	128	128	128	127	127	127				
20	125	125	125	125	125	125	124	124	125	125	124	124	124	123	123				
25	121	121	121	120	120	120	119	119	119	119	119	119	118	118	118				
30	109	111	113	114	114	113	113	113	113	113	113	113	113	112	112				
35	96.4	99.8	102	104	105	106	106	106	107	107	107	107	106	106	106				
40	1.66	13.5	29.0	46.6	66.0	84.1	98.7	102	102	99.9	99.8	99.7	99.4	99.2	98.9				
45	0.92	0.00	0.00	1.29	22.1	46.2	69.4	81.0	88.3	92.1	93.2	92.6	91.0	90.7	90.4				
50	0.87	0.89	0.92	0.99	0.00	0.00	1.56	27.9	57.1	83.2	87.8	86.3	81.7	81.3	80.9				
55	0.81	0.87	0.92	0.97	0.00	0.00	1.16	21.5	41.9	56.3	42.3	22.2	2.02	0.00	0.00				
60	0.26	0.40	0.57	0.75	0.92	1.06	1.15	1.07	0.96	0.88	0.97	1.12	1.30	1.44	1.59				
65	0.24	0.27	0.31	0.36	0.48	0.59	0.69	0.66	0.62	0.60	0.69	0.81	0.94	1.06	1.18				
70	0.24	0.28	0.32	0.34	0.31	0.27	0.25	0.30	0.37	0.48	0.60	0.76	0.94	1.16	1.41				
75	0.09	0.10	0.11	0.12	0.14	0.18	0.24	0.32	0.43	0.57	0.72	0.89	1.07	1.25	1.42				
80	0.06	0.06	0.06	0.07	0.11	0.16	0.23	0.31	0.41	0.52	0.64	0.77	0.91	1.04	1.18				
85	0.27	0.26	0.23	0.20	0.19	0.20	0.22	0.29	0.38	0.48	0.59	0.71	0.82	0.90	0.97				
90	0.32	0.32	0.32	0.31	0.32	0.32	0.35	0.41	0.47	0.54	0.59	0.63	0.67	0.71	0.74				
95	0.59	0.58	0.58	0.57	0.55	0.54	0.55	0.62	0.71	0.81	0.88	0.93	0.98	1.01	1.03				
100	1.09	1.05	1.00	0.94	0.90	0.88	0.89	0.98	1.10	1.21	1.27	1.31	1.33	1.34	1.34				
105	1.72	1.64	1.54	1.44	1.39	1.36	1.36	1.40	1.47	1.54	1.58	1.62	1.64	1.64	1.63				
110	2.52	2.50	2.42	2.28	2.05	1.81	1.59	1.50	1.47	1.49	1.56	1.65	1.73	1.75	1.74				
115	3.09	3.05	2.99	2.88	2.71	2.51	2.30	2.10	1.91	1.75	1.65	1.57	1.51	1.44	1.37				
120	3.58	1.68	1.25	3.75	18.5	33.1	43.3	32.6	17.6	2.52	0.00	0.31	2.19	2.05	1.91				
125	5.55	20.4	37.3	53.3	61.1	65.3	65.9	63.6	58.1	49.2	33.4	17.1	3.03	0.00	0.00				
130	65.9	69.9	72.1	73.2	74.4	75.2	75.6	76.0	76.2	76.6	77.7	78.8	79.8	80.3	80.6				
135	78.3	79.8	81.3	82.7	83.9	84.9	85.7	86.1	86.5	86.9	87.8	88.6	89.4	89.9	90.1				
140	87.5	88.3	89.1	90.1	91.4	92.6	93.8	94.5	95.2	95.8	96.6	97.3	97.9	98.3	98.5				
145	95.7	96.4	97.2	98.0	98.9	99.9	101	102	102	103	104	104	105	105	106				
150	104	105	105	106	106	107	107	108	108	109	110	111	111	112	112				
155	111	112	112	112	112	112	113	113	114	115	115	116	117	117	118				
160	116	116	116	117	117	118	118	119	119	120	121	121	122	122	123				
165	120	120	121	121	121	122	122	123	123	124	125	125	126	126	126				
170	124	124	125	125	126	126	126	127	127	127	128	128	128	129	129				
175	127	127	128	128	128	129	129	129	129	129	130	130	130	130	130				
180	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128				

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature: 25.3DEG  
Operators: Jason  
Test Date: 2020-06-09

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System: EVERFINE GO-2000\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 5.850m [K=1.7094]  
Remarks: