

G4RC-30W-930-110°-White



Light Output Ratio:	100.0%	
Luminaire Power:	28.64 W	
SHR Nominal:	1.25	Calculated using the TM5
SHR Maximum:	1.35	fine grid method.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jasoan
Test Date: 2022-04-21

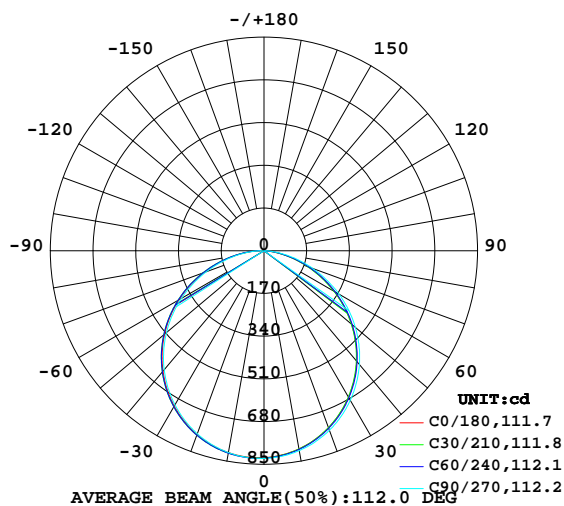
γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 58%
Test Distance: 8.967m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

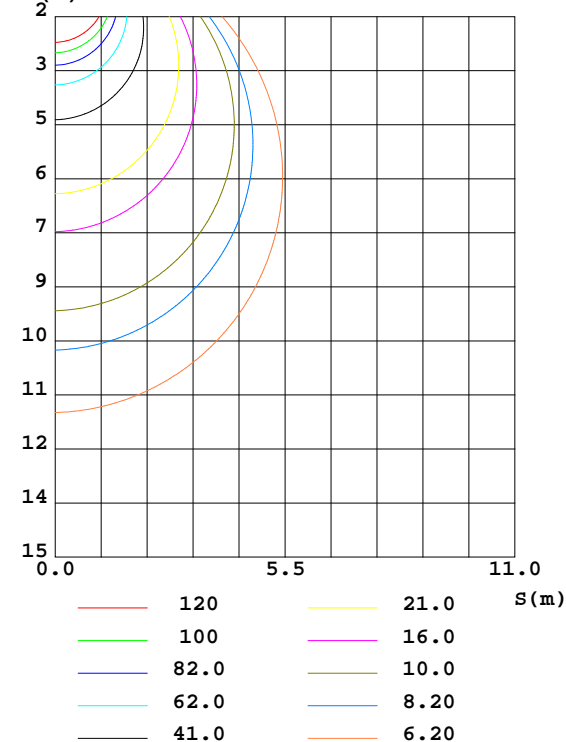
Test:U:220.9V I:0.1379A P:28.64W PF:0.9404 Freq:59.98Hz Lamp Flux:2351.12x1 lm		
NAME: G4RC-30W-930-110°-White	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: L400mm*W400mm*H58mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 82.10 lm/W			
MODEL	Bridgelux-3000K	Imax(cd)	827.2	S/MH(C0/180)	1.29
NOMINAL POWER(W)	30	LOR(%)	100.0	S/MH(C90/270)	1.27
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	2351.1	η UP,DN(C0-180)	0.0,48.2
NOMINAL FLUX(lm)	2351.12	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,51.8
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	220	η down(%)	100.0	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



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ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	800.6	801.9	807.6	813.7	815.6	817.6	815.3	808.6	0- 10	78.06	78.06	3.32,3.32
20	749.5	750.7	760.6	772.2	778.5	781.0	774.9	762.2	10- 20	223.4	301.5	12.8,12.8
30	672.8	673.8	687.0	703.9	713.8	717.7	709.0	689.4	20- 30	338.4	639.9	27.2,27.2
40	573.2	574.1	590.5	611.5	625.0	629.4	618.0	593.8	30- 40	407.6	1047	44.6,44.6
50	455.4	456.1	474.8	499.4	516.1	520.6	506.8	478.8	40- 50	422.2	1470	62.5,62.5
60	322.9	323.5	344.5	371.4	390.6	395.3	379.8	348.4	50- 60	380.2	1850	78.7,78.7
70	186.3	186.9	206.7	234.0	253.1	259.1	243.9	211.3	60- 70	288.1	2138	90.9,90.9
80	64.29	64.28	80.77	103.8	121.0	126.4	112.6	85.13	70- 80	165.8	2304	98,98
90	0.6742	0.6899	0.6847	3.912	14.74	17.62	6.962	1.275	80- 90	47.41	2351	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 1260.3 lm

%lum = 53.6%

%lamp = 53.6%

Conical surface Flux(120deg): 1849.8 lm

%lum = 78.7%

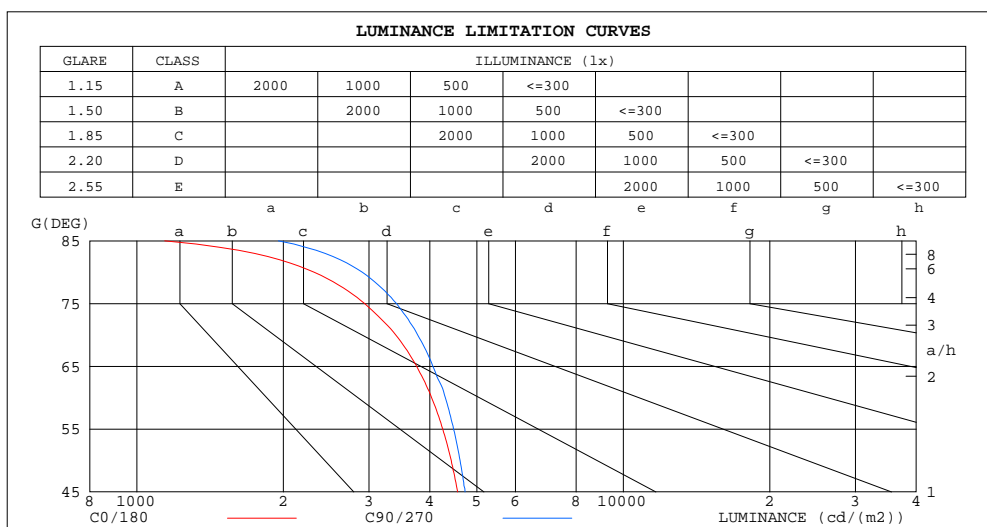
%lamp = 78.7%

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C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jasoan
Test Date:2022-04-21

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:58%
Test Distance:8.967m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:220.9V I:0.1379A P:28.64W PF:0.9404 Freq:59.98Hz Lamp Flux:2351.12x1 lm		
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SPEC.:3000K	DIM.: L400mm*W400mm*H58mm	
MFR.: NEKO LIGHTING AG		



LUMINANCE cd/(m2)		
G(°)	C0/180	C90/270
85	1141	1954
80	2314	2907
75	2940	3418
70	3405	3778
65	3759	4060
60	4036	4306
55	4255	4478
50	4428	4617
45	4565	4727

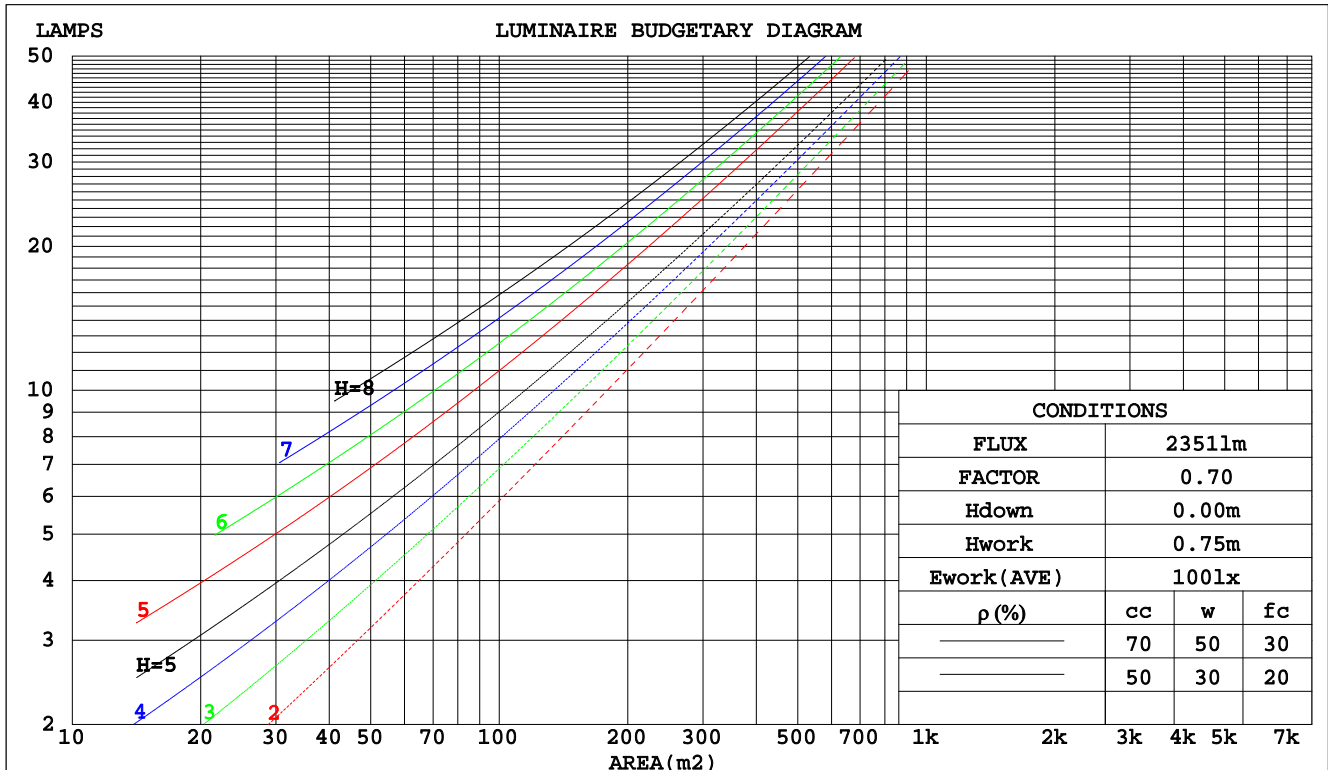
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.:3000K	DIM.: L400mm*W400mm*H58mm	
MFR.: NEKO LIGHTING AG		

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	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1.0	1.04	.99	.96	1.02	.98	.94	.97	.94	.91	.93	.91	.88	.90	.88	.86	.84
2.0	.90	.83	.78	.88	.82	.77	.85	.80	.75	.82	.77	.73	.79	.75	.72	.69
3.0	.79	.71	.64	.78	.70	.64	.75	.68	.63	.72	.66	.62	.69	.65	.61	.58
4.0	.70	.61	.55	.69	.61	.54	.66	.59	.53	.64	.58	.53	.62	.56	.52	.50
5.0	.63	.54	.47	.62	.53	.47	.59	.52	.46	.57	.51	.46	.56	.50	.45	.43
6.0	.56	.47	.41	.55	.47	.41	.54	.46	.40	.52	.45	.40	.50	.44	.40	.38
7.0	.51	.42	.36	.50	.42	.36	.49	.41	.36	.47	.41	.35	.46	.40	.35	.33
8.0	.47	.38	.32	.46	.38	.32	.45	.37	.32	.43	.37	.32	.42	.36	.31	.30
9.0	.43	.35	.29	.42	.34	.29	.41	.34	.29	.40	.33	.29	.39	.33	.28	.27
10.0	.39	.32	.26	.39	.31	.26	.38	.31	.26	.37	.31	.26	.36	.30	.26	.24



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WEC AND CCEC

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MFR.: NEKO LIGHTING AG		

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	.311	.177	.056	.304	.173	.055	.291	.167	.053	.279	.161	.052	.267	.155	.050		
2.0	.292	.160	.049	.286	.158	.049	.274	.153	.047	.264	.148	.046	.254	.144	.045		
3.0	.270	.144	.043	.265	.142	.043	.255	.138	.042	.245	.134	.041	.236	.131	.040		
4.0	.249	.130	.038	.245	.128	.038	.235	.125	.037	.227	.122	.037	.219	.119	.036		
5.0	.231	.118	.034	.226	.116	.034	.218	.114	.033	.211	.111	.033	.203	.109	.033		
6.0	.214	.107	.031	.210	.106	.031	.203	.104	.030	.196	.102	.030	.190	.100	.030		
7.0	.199	.098	.028	.196	.097	.028	.189	.096	.028	.183	.094	.027	.177	.092	.027		
8.0	.186	.091	.026	.183	.090	.025	.177	.088	.025	.172	.087	.025	.166	.085	.025		
9.0	.174	.084	.024	.171	.084	.023	.166	.082	.023	.161	.081	.023	.157	.080	.023		
10.0	.164	.078	.022	.161	.078	.022	.157	.077	.022	.152	.076	.021	.148	.074	.021		

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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.180	.156	.134	.154	.134	.116	.106	.092	.080	.061	.053	.046	.019	.017	.015	
2.0	.172	.132	.098	.148	.114	.085	.101	.079	.059	.058	.046	.035	.019	.015	.011	
3.0	.165	.114	.074	.141	.099	.064	.097	.069	.045	.056	.040	.027	.018	.013	.009	
4.0	.157	.101	.058	.135	.087	.051	.093	.061	.036	.054	.036	.021	.017	.012	.007	
5.0	.149	.091	.047	.128	.078	.041	.088	.055	.029	.051	.032	.017	.017	.010	.006	
6.0	.142	.082	.039	.122	.071	.034	.084	.050	.024	.049	.029	.014	.016	.010	.005	
7.0	.135	.075	.033	.117	.065	.029	.081	.046	.020	.047	.027	.012	.015	.009	.004	
8.0	.129	.070	.029	.111	.060	.025	.077	.042	.018	.045	.025	.011	.014	.008	.003	
9.0	.123	.065	.025	.106	.056	.022	.073	.039	.016	.043	.023	.009	.014	.008	.003	
10.0	.117	.060	.022	.101	.052	.020	.070	.037	.014	.041	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jasoan
Test Date:2022-04-21

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:58%
Test Distance:8.967m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:220.9V I:0.1379A P:28.64W PF:0.9404 Freq:59.98Hz Lamp Flux:2351.12x1 lm										
NAME: G4RC-30W-930-110°-White					TYPE:Downlight			SERIAL No.:		
SPEC.:3000K					DIM.: L400mm*W400mm*H58mm					
MFR.: NEKO LIGHTING AG										
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	14.6	16.1	14.8	16.3	16.5	14.8	16.3	15.1	16.5	16.7
3H	15.9	17.3	16.2	17.5	17.8	16.2	17.6	16.5	17.8	18.1
4H	16.3	17.7	16.7	17.9	18.2	16.7	18.1	17.1	18.3	18.6
6H	16.6	17.9	16.9	18.1	18.4	17.1	18.4	17.4	18.6	18.9
8H	16.7	17.9	17.0	18.2	18.5	17.2	18.4	17.5	18.7	19.0
12H	16.6	17.8	17.0	18.1	18.4	17.2	18.4	17.6	18.7	19.0
4H 2H	15.1	16.5	15.4	16.7	17.0	15.3	16.6	15.6	16.9	17.2
3H	16.6	17.8	16.9	18.1	18.4	16.9	18.0	17.2	18.3	18.6
4H	17.2	18.2	17.5	18.6	18.9	17.5	18.6	17.9	18.9	19.2
6H	17.5	18.5	17.9	18.8	19.2	18.0	18.9	18.4	19.3	19.7
8H	17.6	18.5	18.0	18.9	19.2	18.1	19.0	18.5	19.4	19.8
12H	17.6	18.4	18.0	18.8	19.2	18.2	19.0	18.6	19.4	19.8
8H 4H	17.4	18.2	17.8	18.6	19.0	17.7	18.6	18.1	18.9	19.3
6H	17.8	18.6	18.3	19.0	19.4	18.2	19.0	18.7	19.4	19.8
8H	18.0	18.6	18.4	19.0	19.5	18.4	19.1	18.9	19.5	20.0
12H	18.0	18.6	18.5	19.0	19.5	18.5	19.1	19.0	19.5	20.0
12H 4H	17.4	18.2	17.8	18.6	19.0	17.7	18.5	18.1	18.9	19.3
6H	17.8	18.5	18.3	18.9	19.4	18.3	18.9	18.7	19.3	19.8
8H	18.0	18.6	18.5	19.0	19.5	18.5	19.0	18.9	19.5	20.0
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.3 / - 0.3					+ 0.3 / - 0.3				

CIE Pub.117, 2351 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 3.0$)

C Range: 0 - 360DEG
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Test Speed: HIGH
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γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:58%
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Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.9V I:0.1379A P:28.64W PF:0.9404 Freq:59.98Hz Lamp Flux:2351.12x1 lm		
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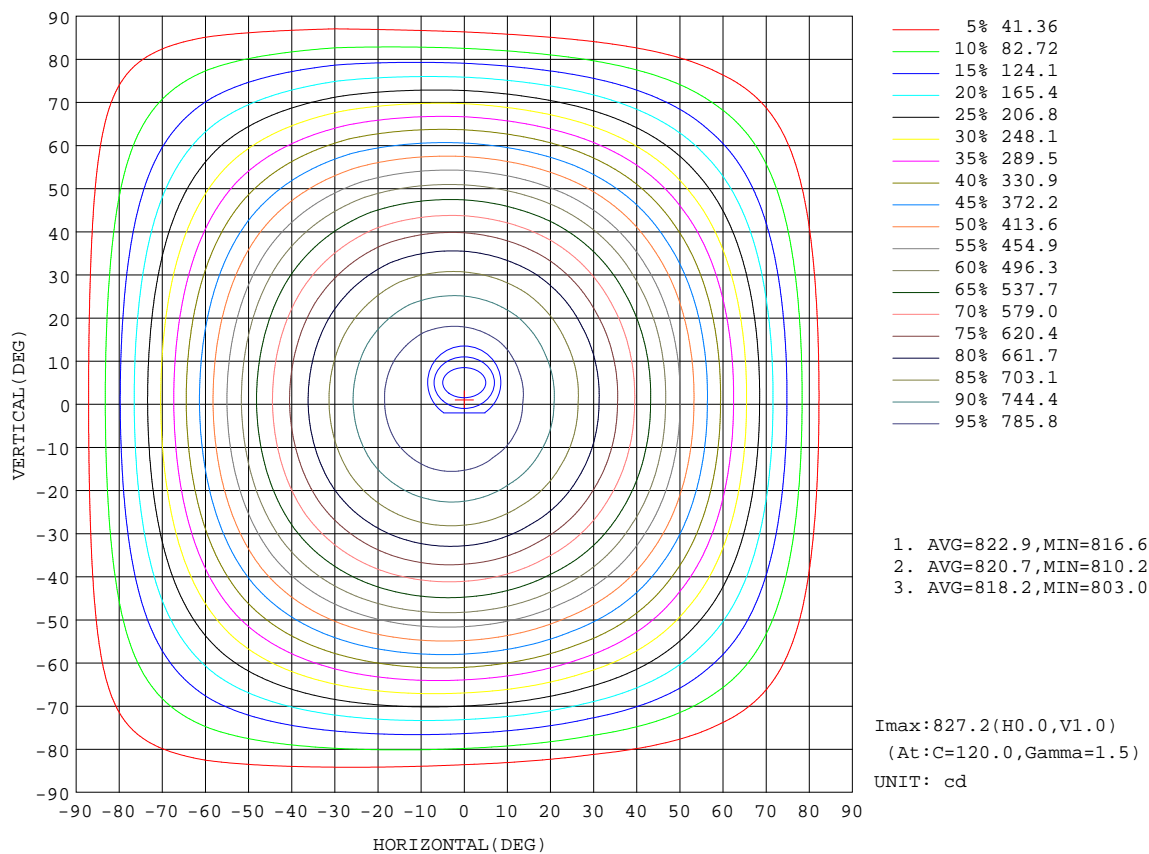
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	46	39	57	46	39	56	45	39	32
0.80	68	56	48	66	55	48	65	55	48	41
1.00	76	65	57	75	64	57	72	66	57	50
1.25	83	73	65	82	72	65	79	70	64	57
1.50	88	78	71	86	77	71	83	75	70	62
2.00	95	86	80	93	85	79	90	83	78	70
2.50	99	91	85	97	90	84	93	87	82	74
3.00	102	95	90	100	94	89	96	91	86	78
4.00	106	100	96	104	99	94	100	95	92	83
5.00	109	104	100	106	102	98	102	98	95	86
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

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ISOCANDELA DIAGRAM

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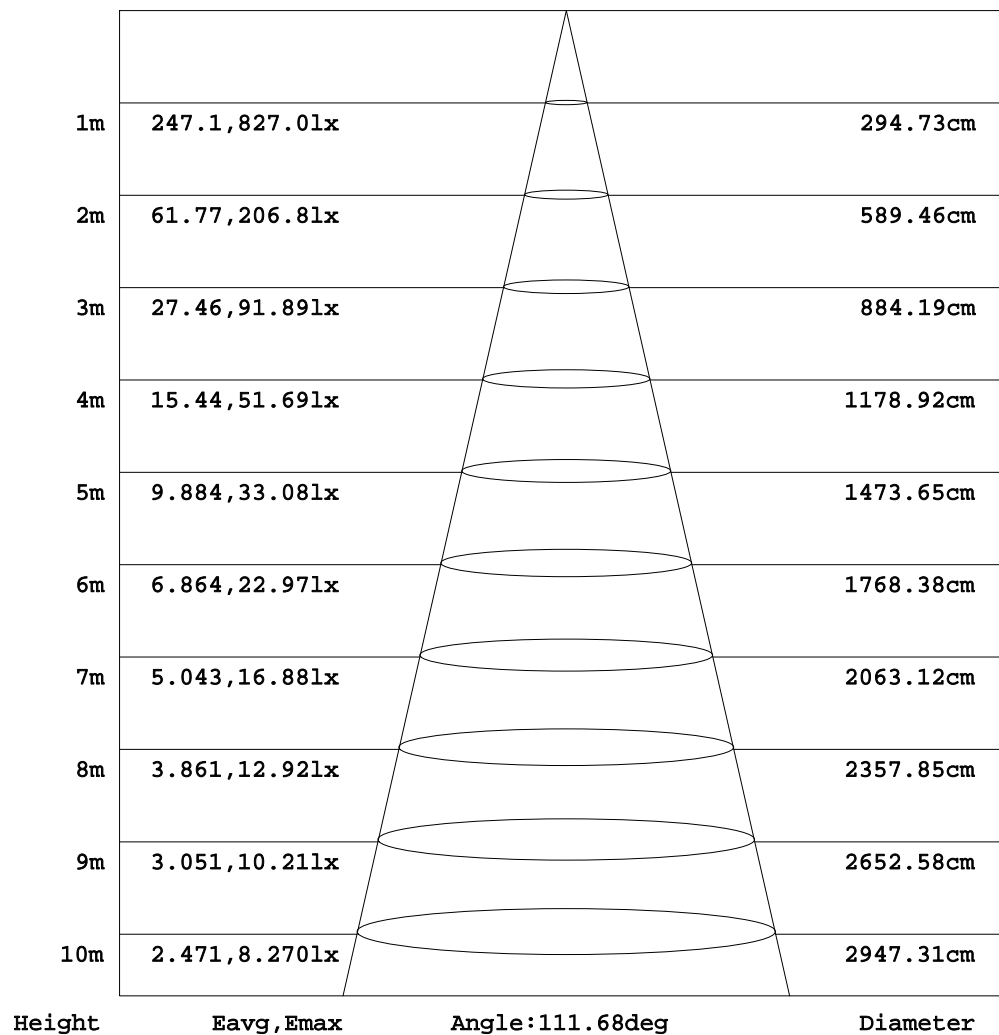
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AAI Figure

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Flux out:1706 lm



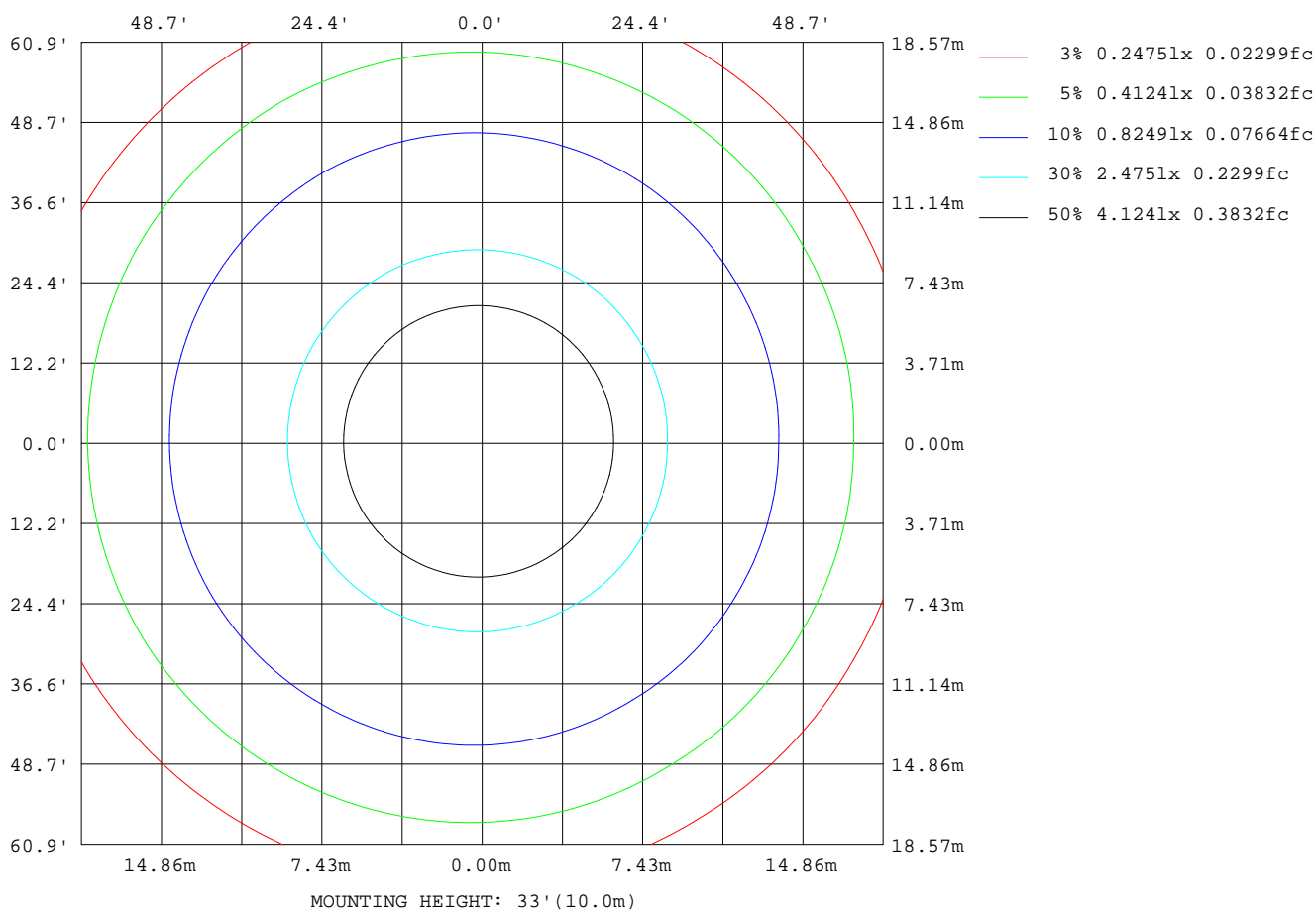
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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LED Avg.L Report

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MFR.: NEKO LIGHTING AG		

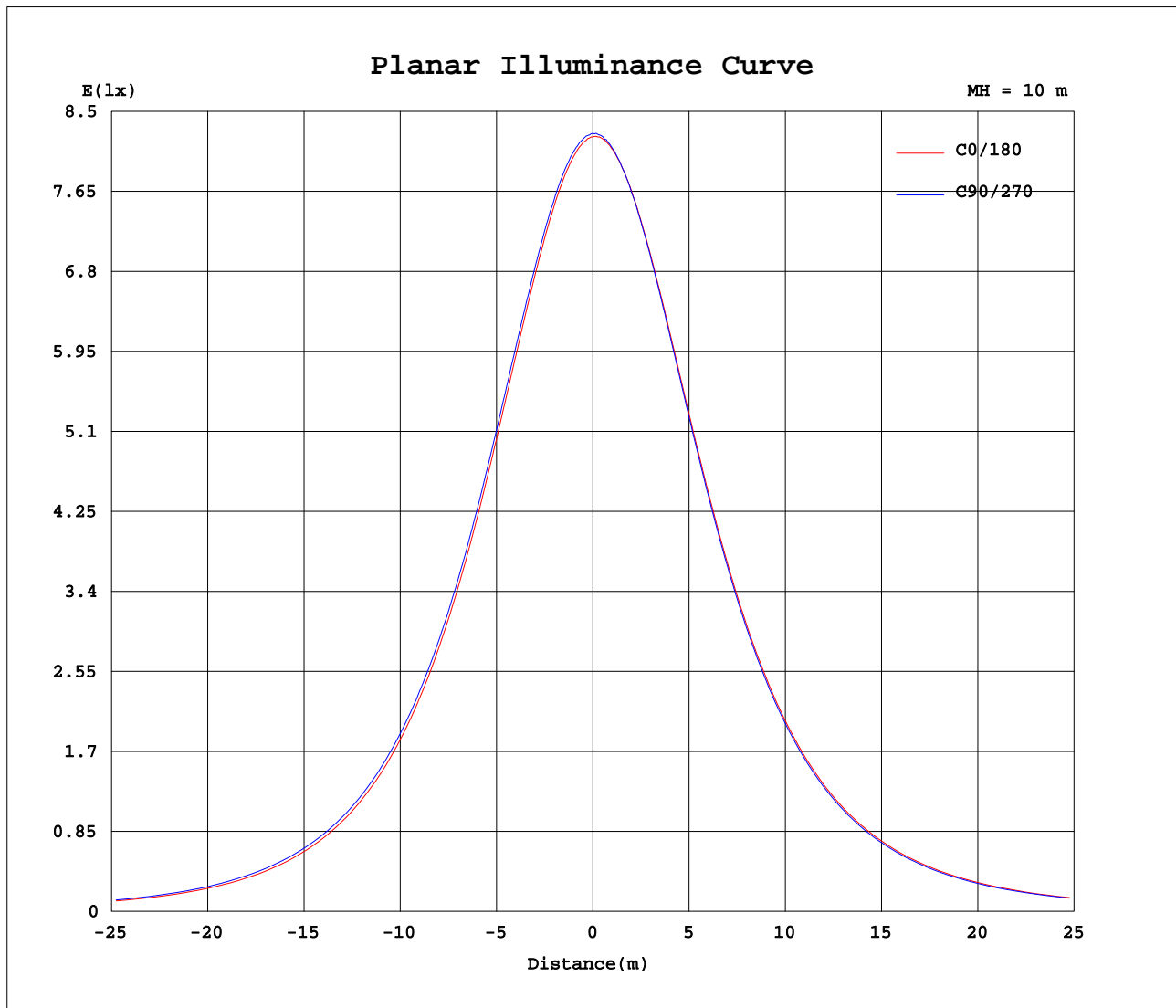
AvgL	cd/m2
L_0~180(65)av	4274
L_0~180(75)av	3710
L_0~180(85)av	2830
L_90~270(65)av	4339
L_90~270(75)av	3841
L_90~270(85)av	2958
L_45(65)av	4308
L_45(75)av	3779
L_45(85)av	2912

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jasoan
Test Date:2022-04-21

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:58%
Test Distance:8.967m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jasoan
Test Date: 2022-04-21

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 58%
Test Distance: 8.967m [K=1.0000]
Remarks:

```

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:58%
Test Distance:8.967m [K=1.0000]
Remarks:

```