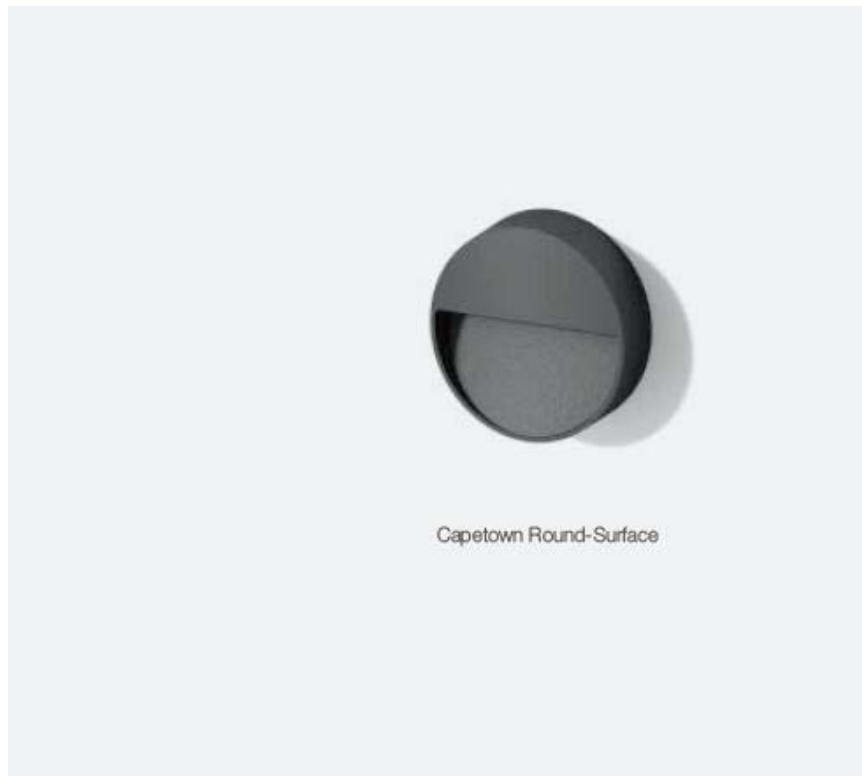


Capetown RS-830-65°



Light Output Ratio:	100.0%	
Luminaire Power:	4.346 W	
SHR Nominal:	0.00	Calculated using the TM5
SHR Maximum:	1.00	fine grid method.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason
Test Date: 2020-06-24

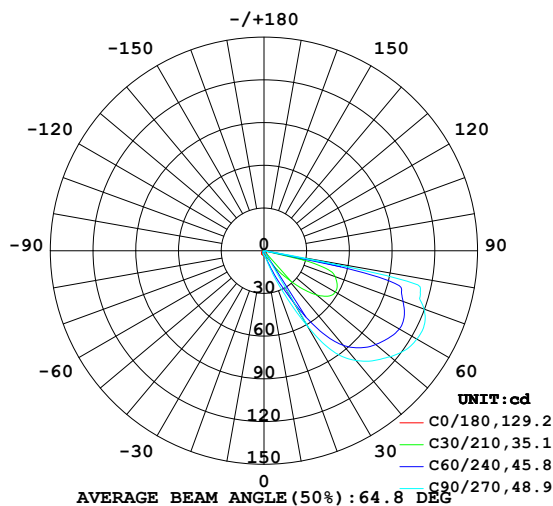
γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 58%
Test Distance: 5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

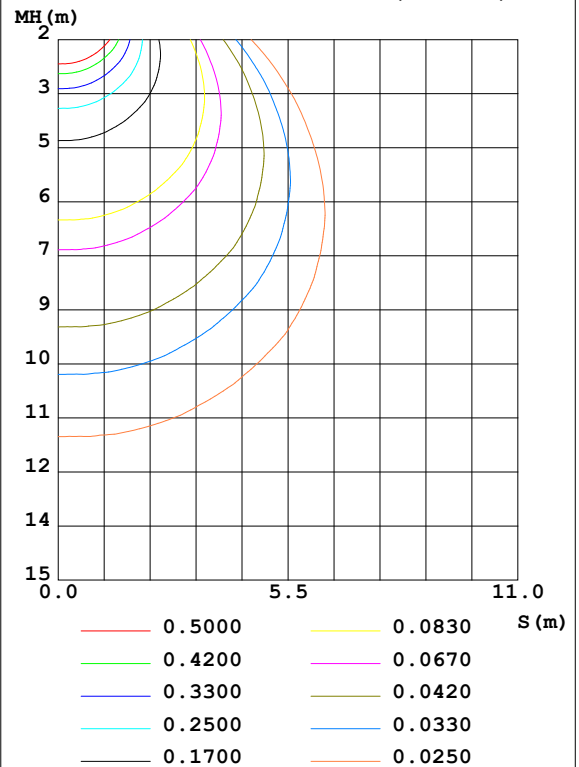
Test:U:221.1V I:0.0448A P:4.346W PF:0.4393 Freq:60.07Hz Lamp Flux:144.603x1 lm		
NAME: Capetown RS-830-65°	TYPE: Recessed Ground Light	SERIAL No.:
SPEC.: 3000K	DIM.: ϕ 100mm*H30mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 33.27 lm/W			
MODEL	3000K	I _{max} (cd)	124.5	S/MH (C0/180)	1.40
NOMINAL POWER (W)	6	LOR (%)	100.0	S/MH (C90/270)	0.66
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	144.60	η UP, DN (C0-180)	0.0, 97.6
NOMINAL FLUX (lm)	144.603	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 2.4
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE (V)	220	η down (%)	100.0	CIBSE SHR MAX	1.00

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason
Test Date: 2020-06-24

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 58%
Test Distance: 5.850m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	3.325	3.727	3.939	3.684	3.279	2.788	2.581	2.817	0- 10	0.3120	0.3120	0.22,0.22
20	3.294	5.946	14.26	5.518	3.204	2.045	1.873	2.052	10- 20	1.050	1.362	0.94,0.94
30	3.224	23.45	61.48	18.15	3.076	1.778	1.496	1.768	20- 30	4.138	5.499	3.8,3.8
40	3.001	61.01	100.6	50.99	2.852	1.439	1.125	1.434	30- 40	13.45	18.95	13.1,13.1
50	2.594	84.67	115.7	78.67	2.470	1.143	0.8509	1.131	40- 50	24.20	43.14	29.8,29.8
60	1.994	88.72	124.0	85.42	1.922	0.9193	0.6273	0.8974	50- 60	32.65	75.79	52.4,52.4
70	1.317	83.68	119.6	81.81	1.242	0.7064	0.4496	0.6752	60- 70	36.82	112.6	77.9,77.9
80	0.4212	5.673	17.33	39.86	0.5194	0.4934	0.3620	0.4751	70- 80	31.06	143.7	99.4,99.4
90	0.0841	0.0630	0.0834	0.0792	0.1489	0.2825	0.2940	0.1957	80- 90	0.9291	144.6	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): 29.817 lm

%lum = 20.6%

%lamp = 20.6%

Conical surface Flux(120deg): 75.793 lm

%lum = 52.4%

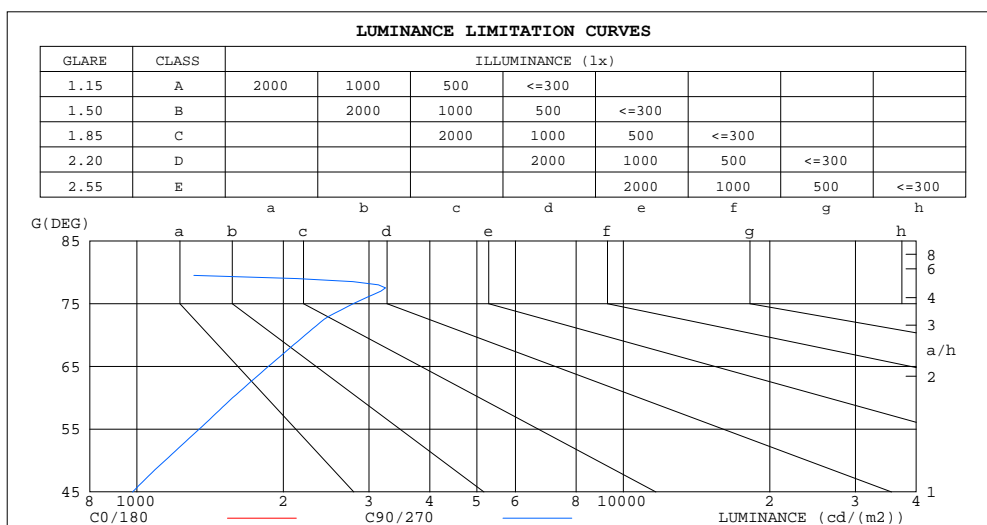
%lamp = 52.4%

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2020-06-24

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:58%
Test Distance:5.850m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:221.1V I:0.0448A P:4.346W PF:0.4393 Freq:60.07Hz Lamp Flux:144.603x1 lm		
NAME: Capetown RS-830-65°	TYPE: Recessed Ground Light	SERIAL No.:
SPEC.: 3000K	DIM.: $\phi 100\text{mm} \times H30\text{mm}$	
MFR.: NEKO LIGHTING AG		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	18	15
80	16	634
75	20	2787
70	25	2220
65	26	1864
60	26	1574
55	26	1344
50	26	1143
45	26	980

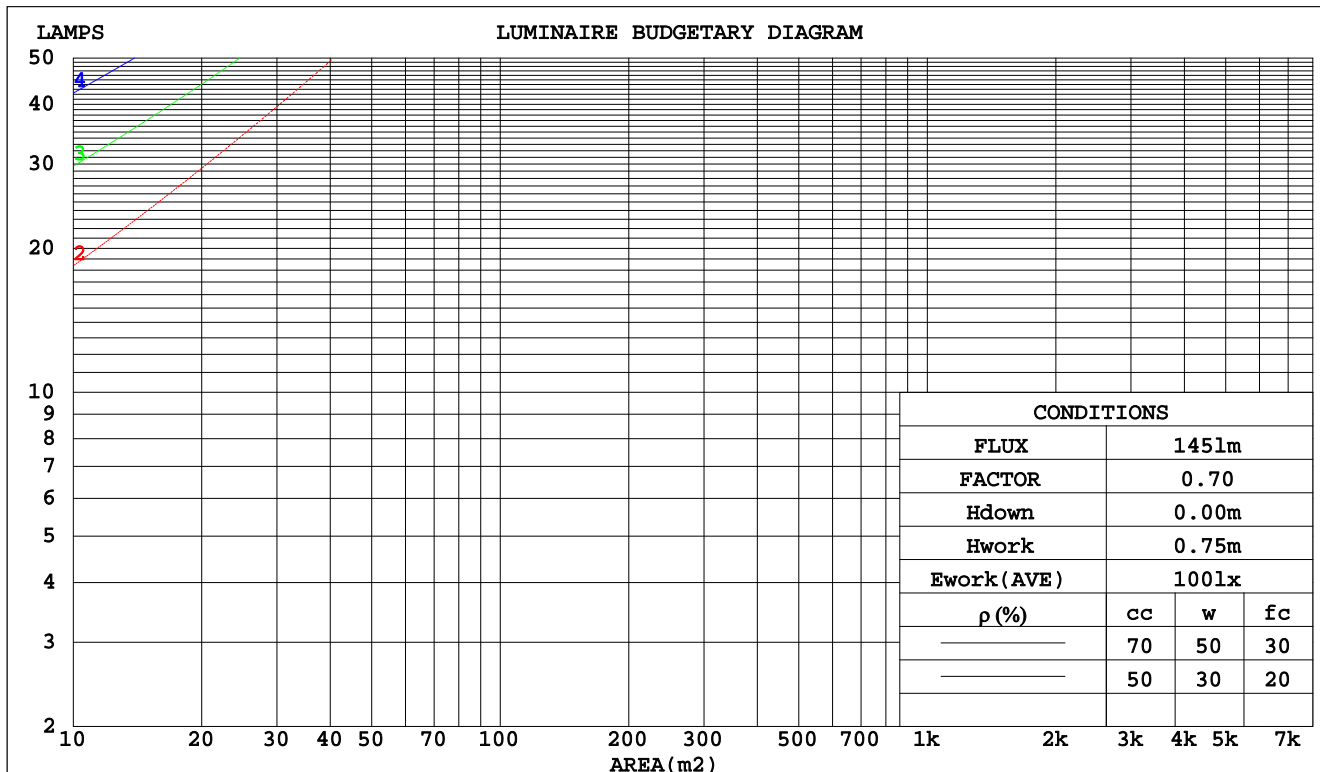
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason
Test Date: 2020-06-24

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 58%
Test Distance: 5.850m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:221.1V I:0.0448A P:4.346W PF:0.4393 Freq:60.07Hz Lamp Flux:144.603x1 lm		
NAME: Capetown RS-830-65°	TYPE: Recessed Ground Light	SERIAL No.:
SPEC.: 3000K	DIM.: ϕ 100mm*H30mm	
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	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	.98	.92	.87	.96	.90	.85	.91	.87	.83	.87	.84	.80	.83	.80	.78	.75
2.0	.79	.70	.62	.77	.69	.61	.74	.66	.60	.70	.64	.58	.67	.62	.57	.54
3.0	.65	.54	.46	.64	.53	.45	.60	.52	.44	.57	.50	.43	.54	.48	.43	.40
4.0	.55	.43	.35	.53	.43	.34	.51	.41	.34	.48	.40	.33	.46	.38	.33	.30
5.0	.47	.35	.27	.46	.35	.27	.43	.34	.26	.41	.33	.26	.39	.31	.25	.23
6.0	.41	.29	.21	.39	.29	.21	.37	.28	.21	.36	.27	.21	.34	.26	.20	.18
7.0	.36	.25	.17	.35	.24	.17	.33	.24	.17	.31	.23	.17	.30	.22	.17	.14
8.0	.32	.21	.14	.31	.21	.14	.29	.20	.14	.28	.20	.14	.27	.19	.14	.11
9.0	.28	.19	.12	.28	.18	.12	.26	.18	.12	.25	.17	.12	.24	.17	.11	.09
10.0	.26	.16	.10	.25	.16	.10	.24	.16	.10	.23	.15	.10	.22	.15	.10	.08



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason
Test Date: 2020-06-24

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 58%
Test Distance: 5.850m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:221.1V I:0.0448A P:4.346W PF:0.4393 Freq:60.07Hz Lamp Flux:144.603x1 lm		
NAME: Capetown RS-830-65°	TYPE: Recessed Ground Light	SERIAL No.:
SPEC.: 3000K	DIM.: ϕ 100mm*H30mm	
MFR.: NEKO LIGHTING AG		

ρ_{cc}	80%			70%			50%			30%			10%			0	
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
ρ_{fc}	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.421	.239	.076	.413	.236	.075	.400	.229	.073	.387	.223	.072	.375	.217	.070		
2.0	.397	.218	.067	.390	.215	.066	.378	.210	.065	.366	.205	.064	.355	.201	.063		
3.0	.359	.191	.057	.353	.189	.057	.342	.185	.056	.331	.182	.056	.321	.178	.055		
4.0	.323	.168	.049	.318	.166	.049	.308	.163	.049	.298	.160	.048	.289	.157	.048		
5.0	.292	.149	.043	.287	.147	.043	.278	.145	.043	.269	.142	.042	.261	.140	.042		
6.0	.265	.133	.038	.261	.132	.038	.252	.129	.038	.245	.127	.037	.238	.125	.037		
7.0	.242	.120	.034	.238	.119	.034	.231	.117	.034	.224	.115	.033	.218	.113	.033		
8.0	.222	.109	.031	.219	.108	.030	.212	.106	.030	.206	.105	.030	.201	.103	.030		
9.0	.205	.099	.028	.202	.099	.028	.197	.097	.028	.191	.096	.027	.186	.094	.027		
10.0	.191	.091	.025	.188	.091	.025	.183	.090	.025	.178	.088	.025	.173	.087	.025		

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	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	.188	.155	.126	.161	.133	.108	.110	.092	.075	.063	.053	.043	.020	.017	.014	
2.0	.186	.131	.085	.160	.113	.074	.109	.078	.051	.063	.046	.030	.020	.015	.010	
3.0	.182	.115	.062	.156	.099	.053	.107	.069	.038	.062	.040	.022	.020	.013	.007	
4.0	.175	.103	.047	.150	.089	.041	.103	.062	.029	.060	.036	.017	.019	.012	.006	
5.0	.168	.093	.038	.144	.080	.033	.099	.056	.023	.057	.033	.014	.018	.011	.005	
6.0	.160	.085	.032	.137	.074	.028	.095	.052	.020	.055	.030	.012	.018	.010	.004	
7.0	.152	.079	.027	.130	.068	.024	.090	.048	.017	.052	.028	.010	.017	.009	.003	
8.0	.144	.073	.024	.124	.063	.021	.086	.044	.015	.050	.026	.009	.016	.009	.003	
9.0	.137	.068	.021	.118	.059	.019	.082	.041	.013	.048	.024	.008	.015	.008	.003	
10.0	.130	.064	.019	.112	.055	.017	.078	.039	.012	.045	.023	.007	.015	.008	.002	

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason
Test Date: 2020-06-24

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 58%
Test Distance: 5.850m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:221.1V I:0.0448A P:4.346W PF:0.4393 Freq:60.07Hz Lamp Flux:144.603x1 lm										
NAME: Capetown RS-830-65°					TYPE: Recessed Ground Light			SERIAL No.:		
SPEC.: 3000K					DIM.: ϕ 100mm*H30mm					
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	17.7	19.7	18.0	19.9	20.2	25.9	27.9	26.2	28.1	28.3
3H	18.5	20.4	18.9	20.6	20.9	29.3	31.1	29.6	31.4	31.6
4H	18.6	20.4	19.0	20.7	21.0	31.0	32.8	31.4	33.0	33.3
6H	18.6	20.2	18.9	20.5	20.8	32.1	33.7	32.4	34.0	34.3
8H	18.5	20.1	18.9	20.4	20.7	32.0	33.6	32.4	33.9	34.2
12H	18.4	20.0	18.8	20.3	20.6	31.9	33.5	32.3	33.8	34.1
4H 2H	22.2	23.9	22.5	24.2	24.5	26.5	28.2	26.8	28.5	28.8
3H	23.8	25.3	24.1	25.6	26.0	30.1	31.7	30.5	32.0	32.3
4H	24.1	25.5	24.5	25.9	26.2	32.1	33.5	32.5	33.9	34.2
6H	24.1	25.3	24.5	25.7	26.1	33.2	34.4	33.6	34.8	35.2
8H	24.0	25.2	24.4	25.6	26.0	33.1	34.3	33.5	34.7	35.1
12H	24.0	25.1	24.4	25.5	25.9	33.1	34.2	33.5	34.6	35.0
8H 4H	26.5	27.6	26.9	28.0	28.4	32.3	33.5	32.8	33.9	34.3
6H	26.4	27.4	26.9	27.9	28.3	33.3	34.3	33.8	34.8	35.2
8H	26.4	27.3	26.9	27.7	28.2	33.3	34.2	33.8	34.6	35.1
12H	26.4	27.2	26.9	27.6	28.1	33.3	34.1	33.8	34.5	35.0
12H 4H	26.5	27.6	27.0	28.0	28.4	32.3	33.4	32.7	33.8	34.2
6H	26.5	27.4	27.0	27.8	28.3	33.3	34.2	33.8	34.6	35.1
8H	26.5	27.3	27.0	27.7	28.2	33.3	34.1	33.8	34.5	35.0
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.4 / - 0.7					+ 0.4 / - 0.4				

CIE Pub.117, 144.6 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = -6.7$)

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason
Test Date: 2020-06-24

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 58%
Test Distance: 5.850m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:221.1V I:0.0448A P:4.346W PF:0.4393 Freq:60.07Hz Lamp Flux:144.603x1 lm		
NAME: Capetown RS-830-65°	TYPE: Recessed Ground Light	SERIAL No.:
SPEC.: 3000K	DIM.: ϕ 100mm*H30mm	
MFR.: NEKO LIGHTING AG		

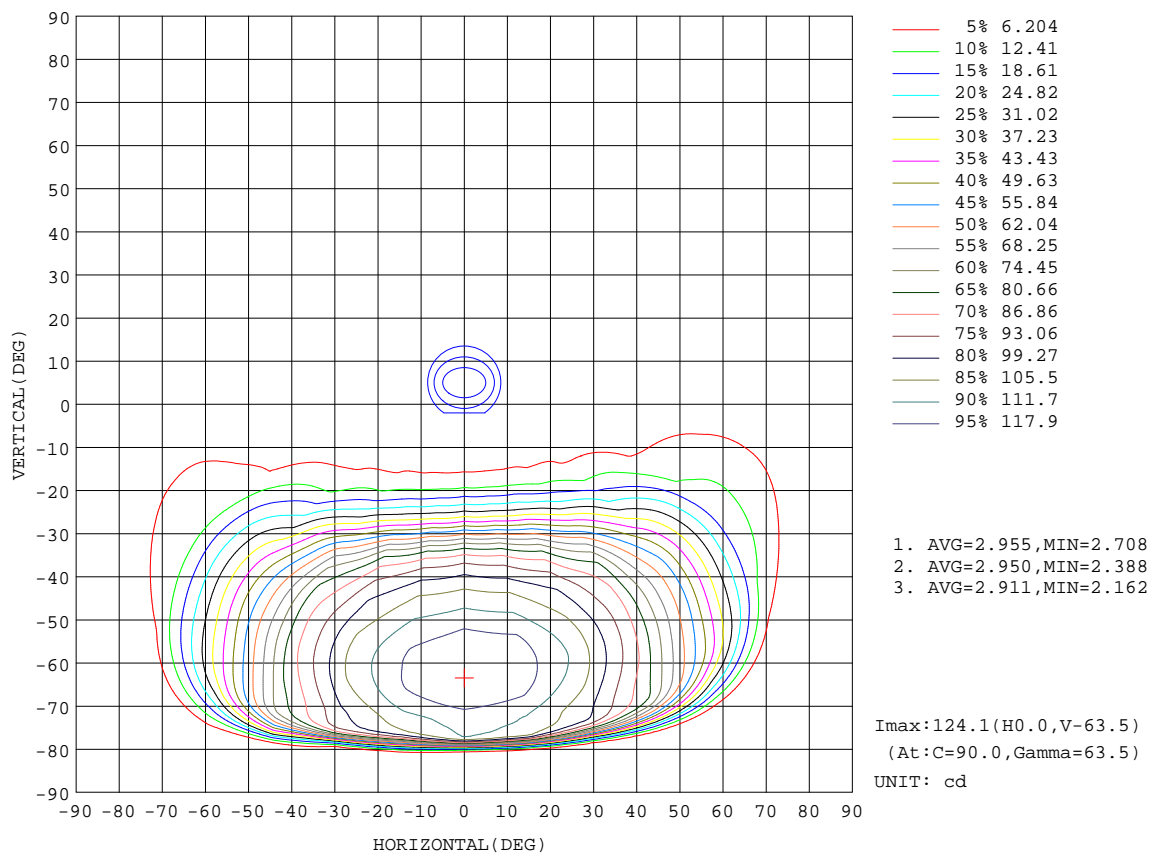
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	40	26	17	39	25	17	38	25	16	8
0.80	50	35	25	49	34	25	46	33	24	15
1.00	59	44	34	57	43	33	55	46	33	23
1.25	67	53	42	65	52	42	62	50	41	31
1.50	74	60	50	72	59	49	68	57	48	38
2.00	83	71	62	81	70	61	77	67	59	49
2.50	89	78	70	87	77	69	82	74	67	57
3.00	94	84	77	92	83	76	87	80	73	63
4.00	100	92	86	98	91	84	93	87	82	72
5.00	104	98	92	102	95	90	97	92	87	77
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Jason
 Test Date: 2020-06-24

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity: 58%
 Test Distance: 5.850m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:221.1V I:0.0448A P:4.346W PF:0.4393 Freq:60.07Hz Lamp Flux:144.603x1 lm		
NAME: Capetown RS-830-65°	TYPE: Recessed Ground Light	SERIAL No.:
SPEC.: 3000K	DIM.: ϕ 100mm*H30mm	
MFR.: NEKO LIGHTING AG		



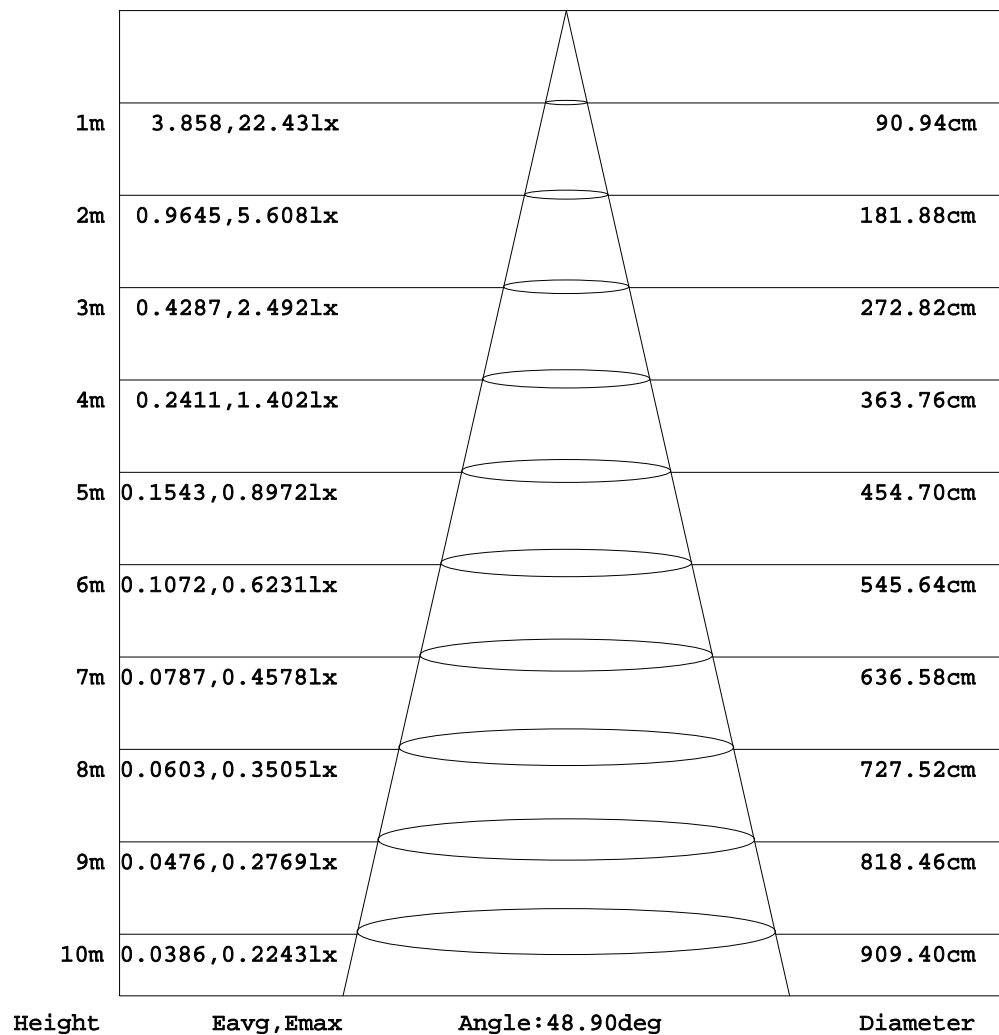
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason
Test Date: 2020-06-24

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 58%
Test Distance: 5.850m [K=1.0000]
Remarks:

AAI Figure

Test:U:221.1V I:0.0448A P:4.346W PF:0.4393 Freq:60.07Hz Lamp Flux:144.603x1 lm		
NAME: Capetown RS-830-65°	TYPE: Recessed Ground Light	SERIAL No.:
SPEC.: 3000K	DIM.: $\phi 100\text{mm} \times H30\text{mm}$	
MFR.: NEKO LIGHTING AG		

Flux out: 2.517 lm



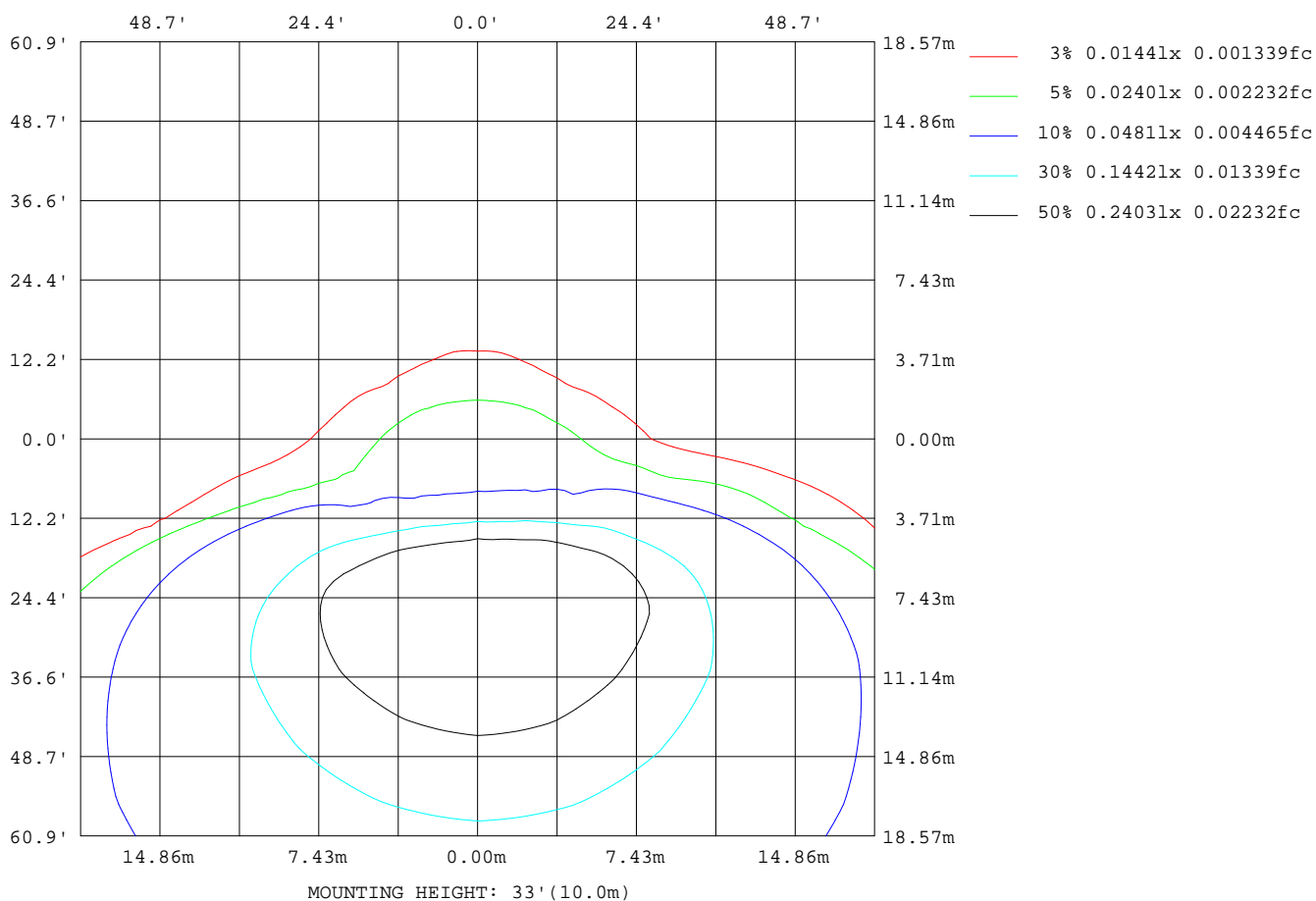
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason
Test Date: 2020-06-24

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 58%
Test Distance: 5.850m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:221.1V I:0.0448A P:4.346W PF:0.4393 Freq:60.07Hz Lamp Flux:144.603x1 lm		
NAME: Capetown RS-830-65°	TYPE: Recessed Ground Light	SERIAL No.:
SPEC.: 3000K	DIM.: $\phi 100\text{mm} \times \text{H}30\text{mm}$	
MFR.: NEKO LIGHTING AG		



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason
Test Date: 2020-06-24

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 58%
Test Distance: 5.850m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:221.1V I:0.0448A P:4.346W PF:0.4393 Freq:60.07Hz Lamp Flux:144.603x1 lm		
NAME: Capetown RS-830-65°	TYPE:Recessed Ground Light	SERIAL No.:
SPEC.:3000K	DIM.: ϕ 100mm*H30mm	
MFR.: NEKO LIGHTING AG		

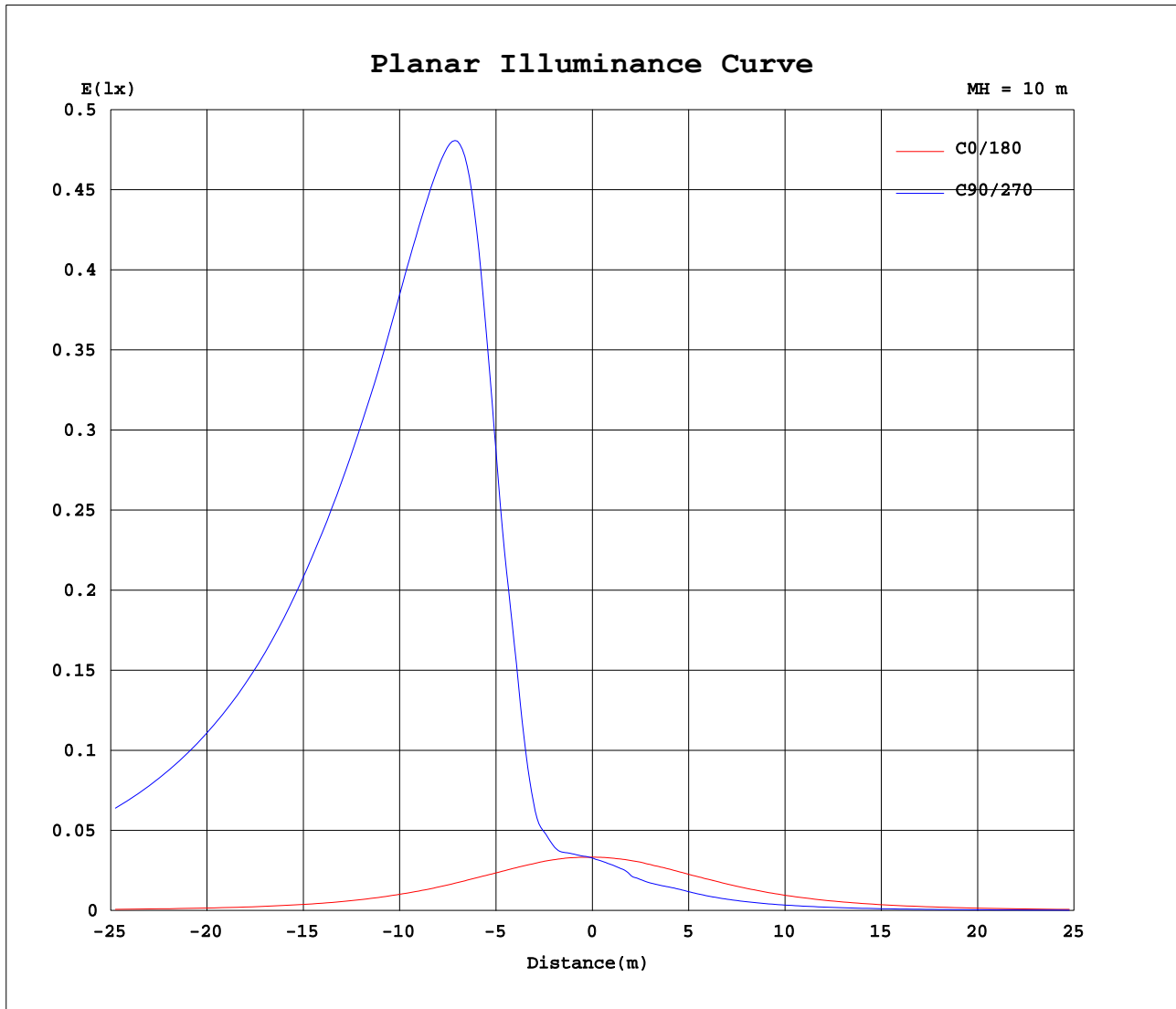
AvgL	cd/m2
L_0~180 (65) av	25
L_0~180 (75) av	20
L_0~180 (85) av	22
L_90~270 (65) av	939
L_90~270 (75) av	1403
L_90~270 (85) av	20
L_45 (65) av	656
L_45 (75) av	959
L_45 (85) av	21

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2020-06-24

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:58%
Test Distance:5.850m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason
Test Date: 2020-06-24

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 58%
Test Distance: 5.850m [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:5.850m [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:5.850m [K=1.0000]
Remarks:

```