

G4RC-30W-935-110°-White



Light Output Ratio:	100.0%	
Luminaire Power:	27.82 W	
SHR Nominal:	1.25	Calculated using the TM5
SHR Maximum:	1.35	fine grid method.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jasoan
Test Date: 2022-04-21

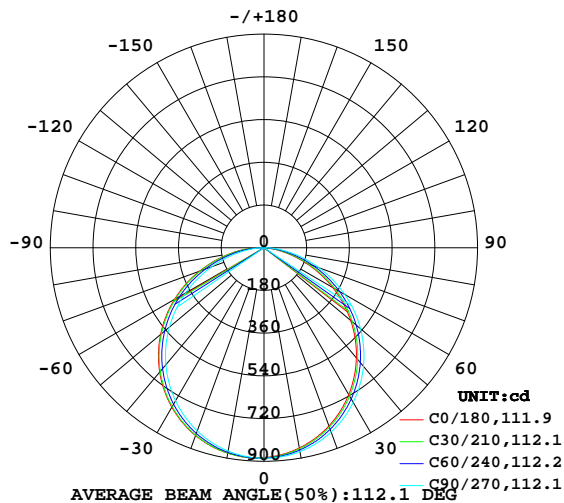
γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 58%
Test Distance: 8.967m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

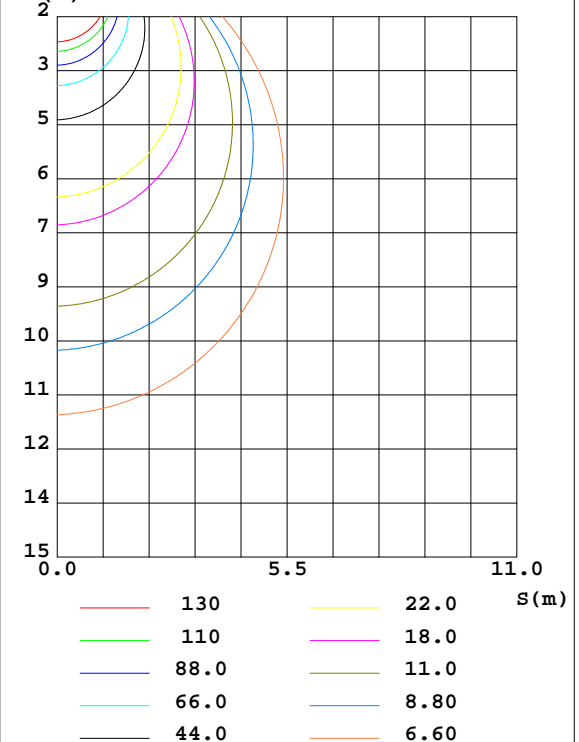
Test:U:220.9V I:0.1344A P:27.82W PF:0.9375 Freq:59.98Hz Lamp Flux:2526.84x1 lm		
NAME: G4RC-30W-935-110°-White	TYPE:Downlight	SERIAL No.:
SPEC.:3500K	DIM.: L400mm*W400mm*H58mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 90.81 lm/W			
MODEL	Bridgelux-3500K	Imax(cd)	888.9	S/MH(C0/180)	1.30
NOMINAL POWER(W)	30	LOR(%)	100.0	S/MH(C90/270)	1.25
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	2526.8	η UP,DN(C0-180)	0.0,49.9
NOMINAL FLUX(lm)	2526.84	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,50.1
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)



C Range: 0 - 360DEG
C Interval: 15.0DEG
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:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	857.4	863.1	872.6	879.3	879.1	876.8	869.5	861.8	0- 10	83.84	83.84	3.32,3.32
20	799.4	809.6	826.2	840.9	842.7	836.7	822.0	805.1	10- 20	240.0	323.8	12.8,12.8
30	714.1	729.4	751.9	772.5	776.2	767.9	745.0	722.6	20- 30	363.5	687.3	27.2,27.2
40	606.0	623.1	652.4	676.7	684.1	672.1	642.9	614.7	30- 40	437.9	1125	44.5,44.5
50	477.0	497.2	530.4	560.4	568.7	554.9	521.0	486.8	40- 50	453.5	1579	62.5,62.5
60	333.5	356.8	392.7	425.4	435.5	419.8	381.7	343.7	50- 60	408.4	1987	78.6,78.6
70	187.9	209.1	246.3	277.3	289.0	274.2	233.6	196.9	60- 70	309.7	2297	90.9,90.9
80	58.39	75.69	106.3	134.4	146.1	132.1	97.28	66.11	70- 80	178.3	2475	97.9,97.9
90	0.7631	0.7526	0.7003	17.64	25.95	15.53	1.328	1.505	80- 90	51.81	2527	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): 1353.8 lm

%lum = 53.6%

%lamp = 53.6%

Conical surface Flux(120deg): 1987.1 lm

%lum = 78.6%

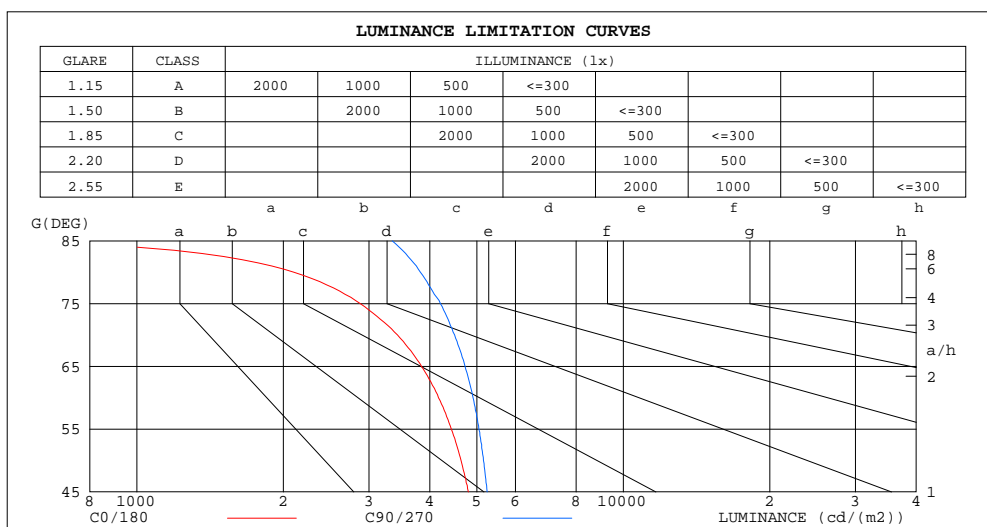
%lamp = 78.6%

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jasoan
Test Date:2022-04-21

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 γ 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:0.1344A P:27.82W PF:0.9375 Freq:59.98Hz Lamp Flux:2526.84x1 lm		
NAME: G4RC-30W-935-110°-White	TYPE:Downlight	SERIAL No.:
SPEC.:3500K	DIM.: L400mm*W400mm*H58mm	
MFR.: NEKO LIGHTING AG		



LUMINANCE cd/(m2)		
G(°)	C0/180	C90/270
85	551	3348
80	2101	3826
75	2878	4207
70	3433	4501
65	3847	4727
60	4169	4909
55	4430	5045
50	4638	5158
45	4804	5248

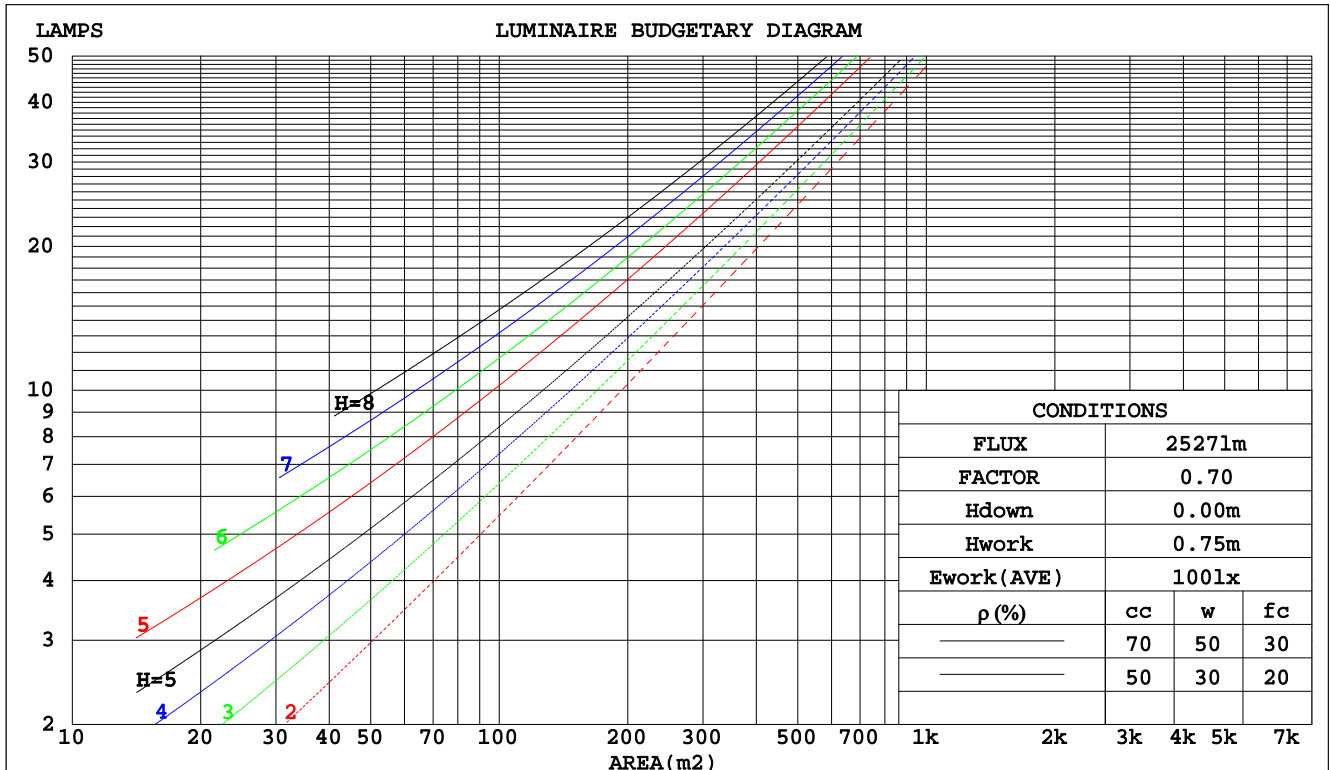
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jasoan
Test Date:2022-04-21

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:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.9V I:0.1344A P:27.82W PF:0.9375 Freq:59.98Hz Lamp Flux:2526.84x1 lm		
NAME: G4RC-30W-935-110°-White	TYPE:Downlight	SERIAL No.:
SPEC.:3500K	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	.83
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	.40	.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



C Range: 0 - 360DEG
C Interval: 15.0DEG
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:

WEC AND CCEC

Test:U:220.9V I:0.1344A P:27.82W PF:0.9375 Freq:59.98Hz Lamp Flux:2526.84x1 lm		
NAME: G4RC-30W-935-110°-White	TYPE:Downlight	SERIAL No.:
SPEC.:3500K	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						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.312	.177	.056	.305	.174	.055	.291	.167	.053	.279	.161	.052	.268	.155	.050	
2.0	.293	.160	.049	.286	.158	.049	.275	.153	.047	.264	.148	.046	.254	.144	.045	
3.0	.271	.144	.043	.265	.142	.043	.255	.138	.042	.245	.134	.041	.236	.131	.040	
4.0	.250	.130	.038	.245	.128	.038	.236	.125	.037	.227	.122	.037	.219	.119	.036	
5.0	.231	.118	.034	.226	.116	.034	.218	.114	.033	.211	.111	.033	.204	.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	.079	.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	.150	.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: 15.0DEG
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:0.1344A P:27.82W PF:0.9375 Freq:59.98Hz Lamp Flux:2526.84x1 lm										
NAME: G4RC-30W-935-110°-White					TYPE:Downlight			SERIAL No.:		
SPEC.:3500K					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	14.5	16.0	14.8	16.2	16.4	15.1	16.6	15.4	16.8	17.0
3H	15.7	17.1	16.0	17.4	17.6	16.6	18.0	16.9	18.3	18.5
4H	16.2	17.5	16.5	17.7	18.0	17.2	18.6	17.5	18.8	19.1
6H	16.4	17.6	16.7	17.9	18.2	17.7	19.0	18.0	19.2	19.5
8H	16.4	17.6	16.7	17.9	18.2	17.8	19.1	18.2	19.3	19.6
12H	16.4	17.5	16.7	17.8	18.1	17.9	19.1	18.3	19.4	19.7
4H 2H	15.1	16.5	15.4	16.7	17.0	15.6	16.9	15.9	17.2	17.4
3H	16.5	17.7	16.9	18.0	18.3	17.3	18.4	17.6	18.7	19.0
4H	17.0	18.1	17.4	18.4	18.8	18.0	19.1	18.4	19.4	19.7
6H	17.4	18.3	17.8	18.7	19.0	18.6	19.5	19.0	19.9	20.3
8H	17.4	18.3	17.8	18.7	19.0	18.8	19.7	19.2	20.0	20.4
12H	17.4	18.2	17.8	18.6	19.0	18.9	19.7	19.3	20.1	20.5
8H 4H	17.3	18.2	17.7	18.6	18.9	18.2	19.1	18.6	19.4	19.8
6H	17.7	18.5	18.2	18.9	19.3	18.9	19.6	19.3	20.0	20.4
8H	17.8	18.5	18.3	18.9	19.3	19.1	19.8	19.6	20.2	20.7
12H	17.8	18.4	18.3	18.8	19.3	19.3	19.9	19.8	20.3	20.8
12H 4H	17.3	18.1	17.7	18.5	18.9	18.1	19.0	18.6	19.4	19.8
6H	17.8	18.4	18.2	18.8	19.3	18.9	19.5	19.3	20.0	20.4
8H	17.9	18.4	18.3	18.9	19.4	19.2	19.7	19.6	20.2	20.7
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.2				
1.5H	+ 0.2 / - 0.4					+ 0.2 / - 0.3				
2.0H	+ 0.3 / - 0.4					+ 0.2 / - 0.3				

CIE Pub.117, 2527 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 3.2$)

C Range: 0 - 360DEG
C Interval: 15.0DEG
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:

UTILIZATION FACTORS TABLE

Test:U:220.9V I:0.1344A P:27.82W PF:0.9375 Freq:59.98Hz Lamp Flux:2526.84x1 lm		
NAME: G4RC-30W-935-110°-White	TYPE:Downlight	SERIAL No.:
SPEC.:3500K	DIM.: L400mm*W400mm*H58mm	
MFR.: NEKO LIGHTING AG		

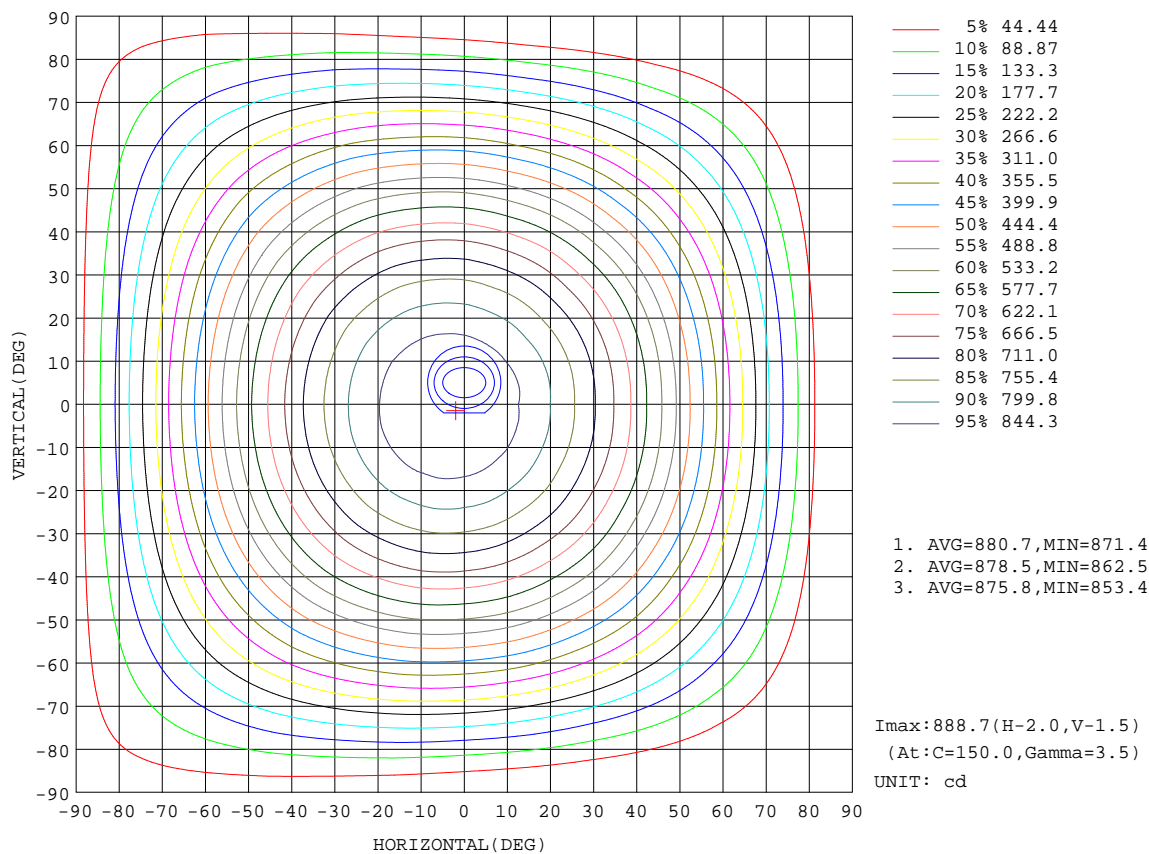
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	57	46	39	57	46	39	56	45	39	32
0.80	67	56	48	66	55	48	65	55	48	41
1.00	76	65	57	75	64	57	72	66	57	49
1.25	83	72	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		

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 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:

ISOCANDELA DIAGRAM

Test:U:220.9V I:0.1344A P:27.82W PF:0.9375 Freq:59.98Hz Lamp Flux:2526.84x1 lm		
NAME: G4RC-30W-935-110°-White	TYPE:Downlight	SERIAL No.:
SPEC.:3500K	DIM.: L400mm*W400mm*H58mm	
MFR.: NEKO LIGHTING AG		



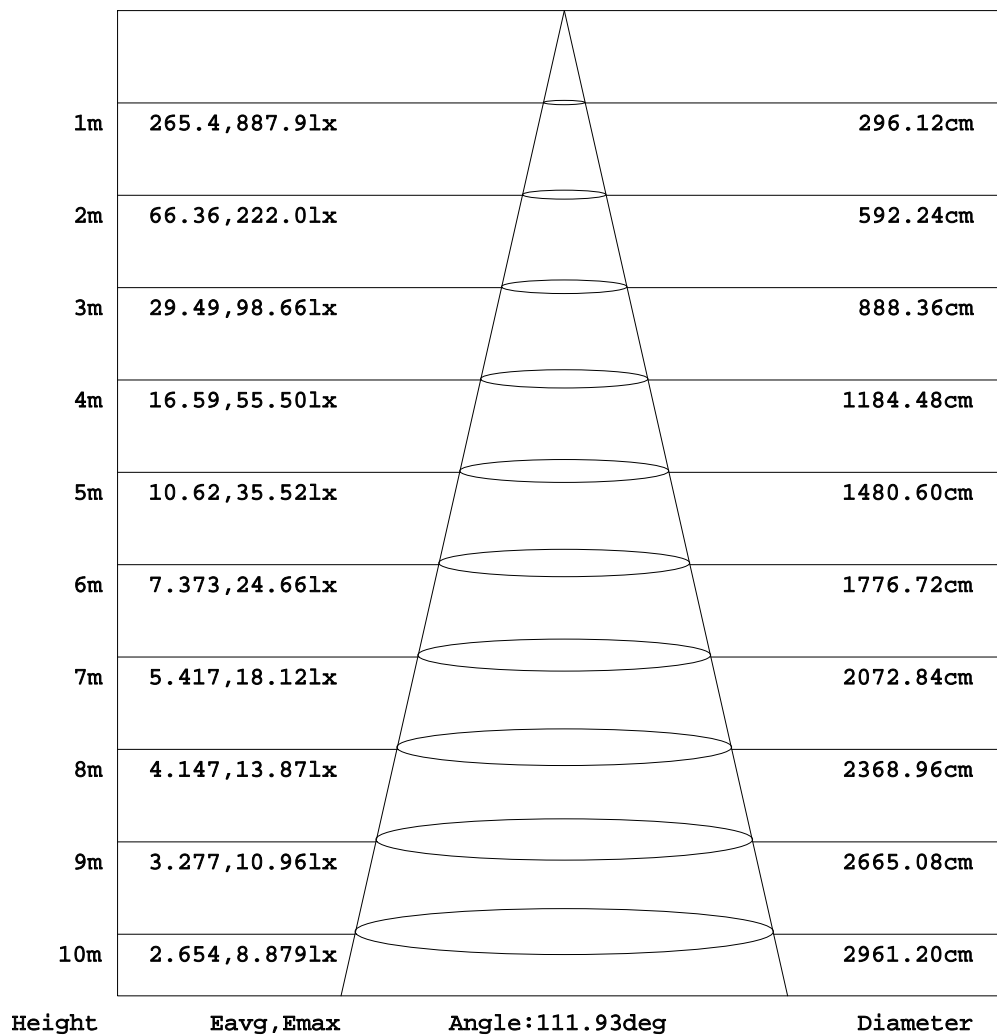
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jasoan
Test Date:2022-04-21

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:

AAI Figure

Test:U:220.9V I:0.1344A P:27.82W PF:0.9375 Freq:59.98Hz Lamp Flux:2526.84x1 lm		
NAME: G4RC-30W-935-110°-White	TYPE:Downlight	SERIAL No.:
SPEC.:3500K	DIM.: L400mm*W400mm*H58mm	
MFR.: NEKO LIGHTING AG		

Flux out:1833 lm



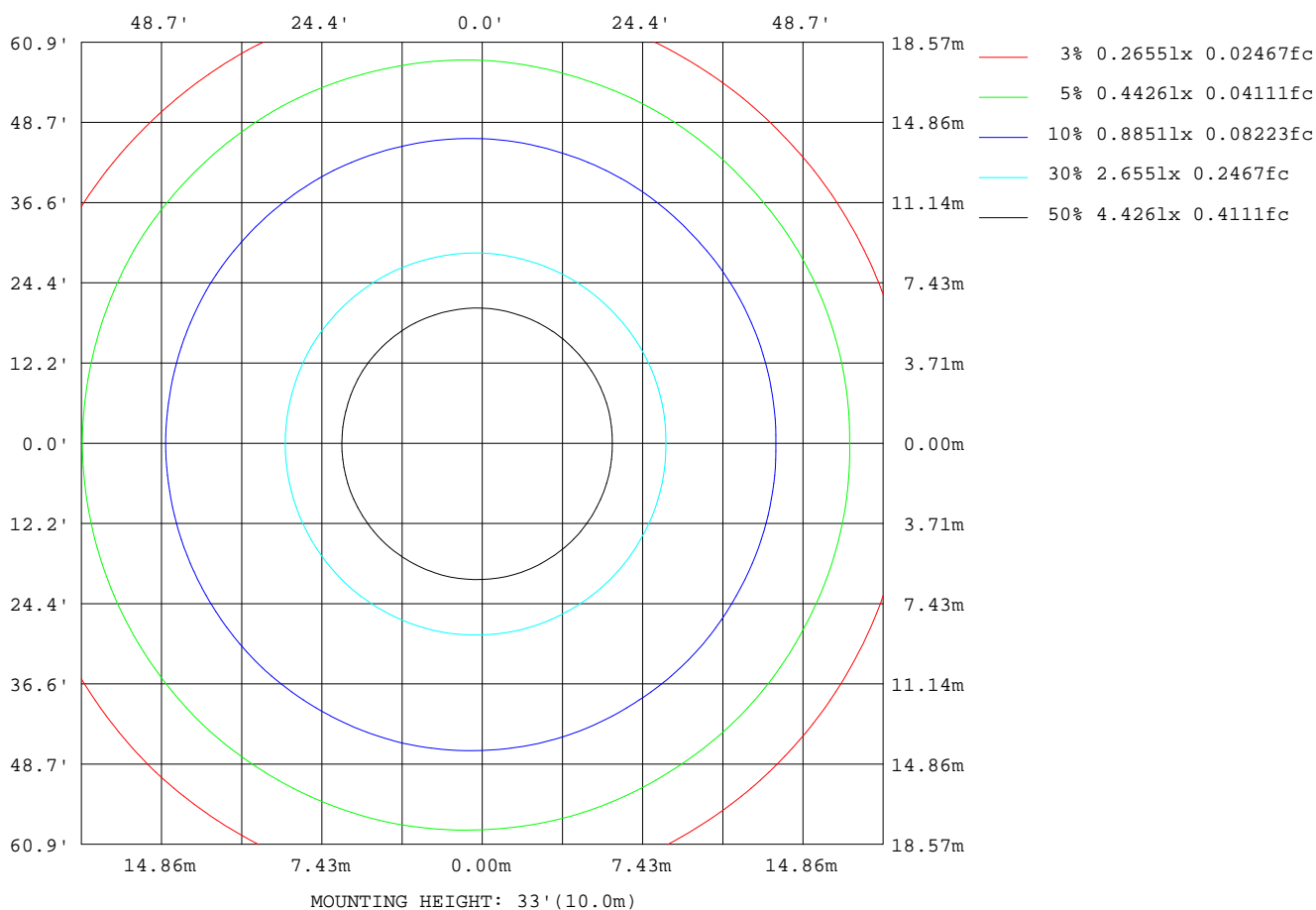
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 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:

ISOLUX DIAGRAM

Test:U:220.9V I:0.1344A P:27.82W PF:0.9375 Freq:59.98Hz Lamp Flux:2526.84x1 lm		
NAME: G4RC-30W-935-110°-White	TYPE:Downlight	SERIAL No.:
SPEC.:3500K	DIM.: L400mm*W400mm*H58mm	
MFR.: NEKO LIGHTING AG		



C Range: 0 - 360DEG
C Interval: 15.0DEG
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:

LED Avg.L Report

Test:U:220.9V I:0.1344A P:27.82W PF:0.9375 Freq:59.98Hz Lamp Flux:2526.84x1 lm		
NAME: G4RC-30W-935-110°-White	TYPE:Downlight	SERIAL No.:
SPEC.:3500K	DIM.: L400mm*W400mm*H58mm	
MFR.: NEKO LIGHTING AG		

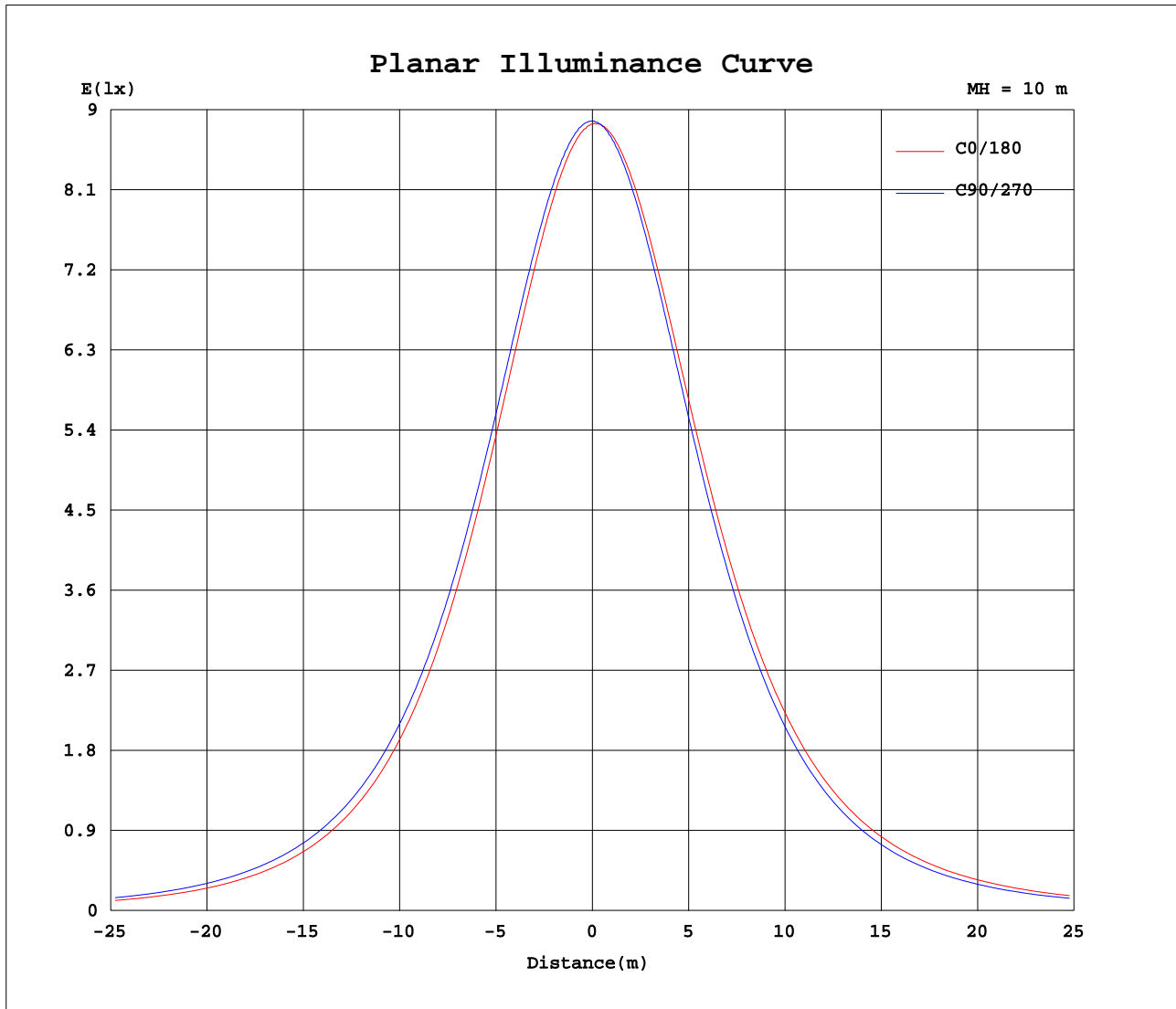
AvgL	cd/m2
L_0~180(65)av	4615
L_0~180(75)av	4047
L_0~180(85)av	3208
L_90~270(65)av	4628
L_90~270(75)av	4069
L_90~270(85)av	3079
L_45(65)av	4630
L_45(75)av	4064
L_45(85)av	3134

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
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: 15.0DEG
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:

```

```

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:

```