

GAME-600-50W-830



Light Output Ratio:	100.0%	
Luminaire Power:	50.35 W	
SHR Nominal:	1.25	Calculated using the TM5
SHR Maximum:	1.35	fine grid method.

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Myles
Test Date:2019-01-05

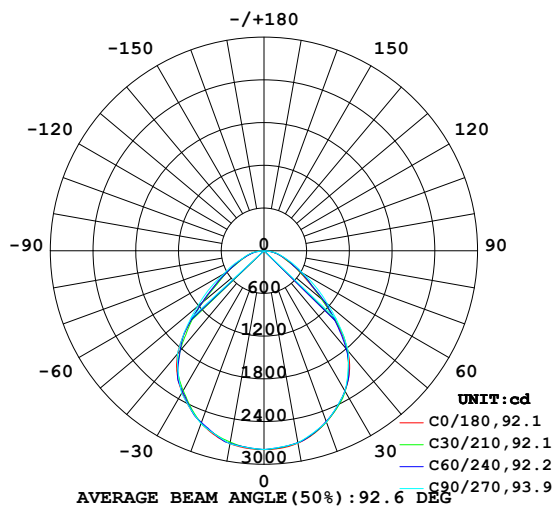
V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:56%
Test Distance:5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

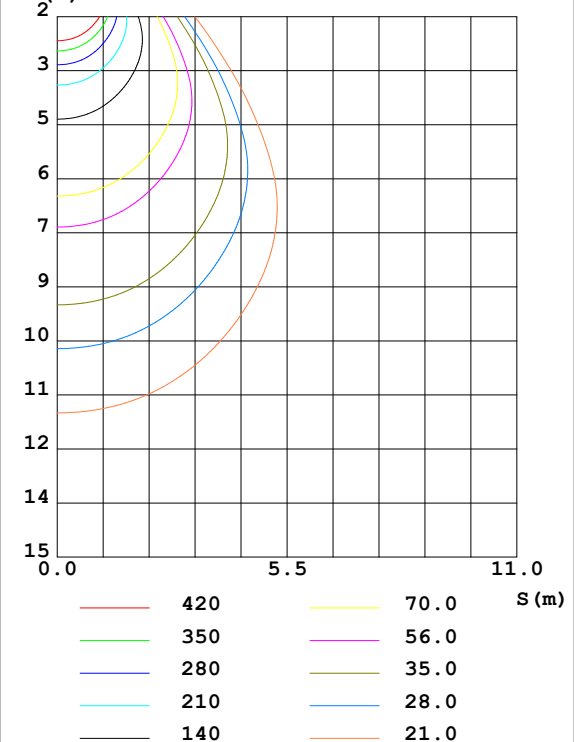
Test:U:220.9V I:0.2530A P:50.35W PF:0.9010 Freq:49.90Hz Lamp Flux:6075.74x1 lm		
NAME: GAME-600-50W-830	TYPE:Ceiling light	SERIAL No.:
SPEC.:3000K	DIM.: ϕ 600mm*H78mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 120.67 lm/W			
MODEL	OSRAM-3000K	I _{max} (cd)	2793	S/MH (C0/180)	1.23
NOMINAL POWER (W)	50	LOR (%)	100.0	S/MH (C90/270)	1.23
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	6075.7	η UP,DN (C0-180)	0.0,49.6
NOMINAL FLUX (lm)	6075.74	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.0,50.4
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)



H(β) Range:-90 - 90DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Myles
 Test Date:2019-01-05

V(B) Range:-80 - 80DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:56%
 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	2745	2734	2742	2728	2751	2738	2754	2742	0- 10	263.7	263.7	4.34,4.34
20	2560	2558	2561	2543	2578	2555	2585	2578	10- 20	751.4	1015	16.7,16.7
30	2275	2269	2278	2274	2300	2289	2311	2301	20- 30	1121	2136	35.2,35.2
40	1830	1823	1840	1855	1887	1874	1892	1877	30- 40	1303	3440	56.6,56.6
50	1065	1040	1166	1187	1132	1130	1218	1188	40- 50	1156	4595	75.6,75.6
60	556.6	559.0	620.0	609.1	589.7	586.4	649.8	621.9	50- 60	747.7	5343	87.9,87.9
70	290.7	295.2	324.4	312.5	303.9	298.0	321.1	313.5	60- 70	434.6	5778	95.1,95.1
80	134.7	139.9	155.5	153.3	152.1	137.9	165.7	153.2	70- 80	241.3	6019	99.1,99.1
90	0	0	0	0	1.310	0	0	0	80- 90	56.70	6076	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): 4063.1 lm

%lum = 66.9%

%lamp = 66.9%

Conical surface Flux(120deg): 5343.1 lm

%lum = 87.9%

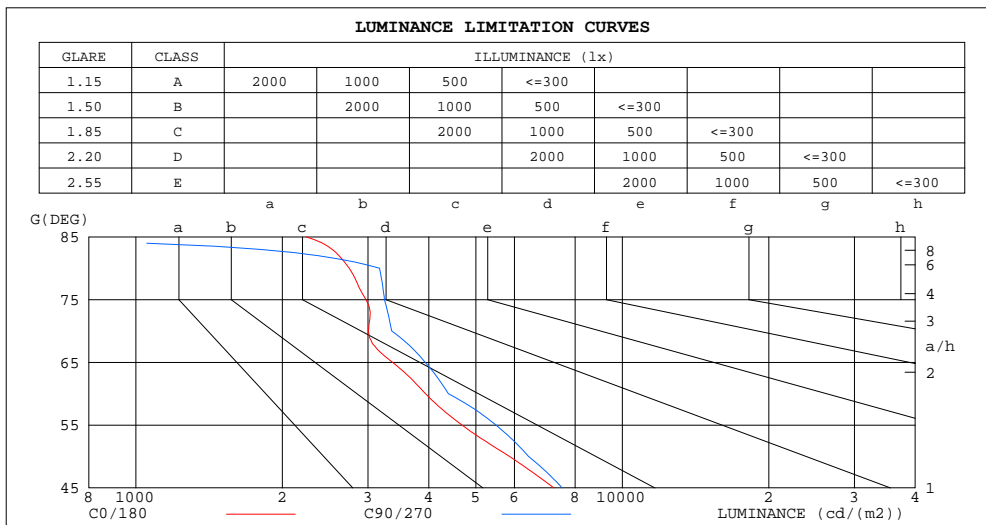
%lamp = 87.9%

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Myles
Test Date:2019-01-05

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:56%
Test Distance:5.850m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:220.9V I:0.2530A P:50.35W PF:0.9010 Freq:49.90Hz Lamp Flux:6075.74x1 lm		
NAME: GAME-600-50W-830	TYPE:Ceiling light	SERIAL No.:
SPEC.:3000K	DIM.: ϕ 600mm*H78mm	
MFR.: NEKO LIGHTING AG		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	2239	0
80	2745	3170
75	2970	3244
70	3008	3356
65	3369	3934
60	3939	4388
55	4681	5499
50	5861	6416
45	7229	7522

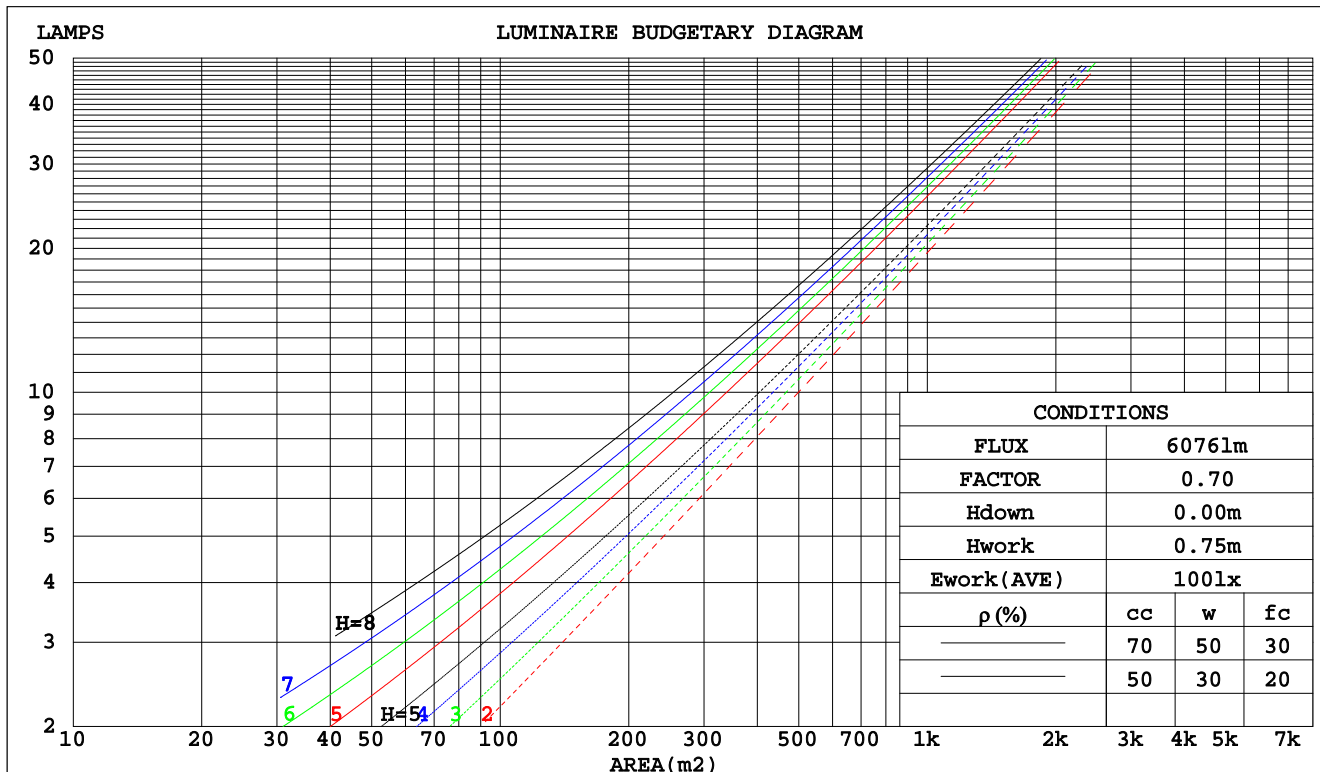
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V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:56%
Test Distance:5.850m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.9V I:0.2530A P:50.35W PF:0.9010 Freq:49.90Hz Lamp Flux:6075.74x1 lm		
NAME: GAME-600-50W-830	TYPE:Ceiling light	SERIAL No.:
SPEC.:3000K	DIM.: ϕ 600mm*H78mm	
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	.00
1.0	1.06	1.03	.99	1.04	1.01	.98	.90	.97	.95	.96	.94	.92	.92	.91	.89	.87
2.0	.94	.89	.84	.93	.87	.83	.89	.85	.81	.86	.82	.79	.83	.80	.77	.75
3.0	.84	.77	.71	.83	.76	.71	.80	.74	.70	.77	.72	.68	.75	.71	.67	.65
4.0	.76	.68	.62	.75	.67	.61	.72	.66	.61	.70	.64	.60	.68	.63	.59	.57
5.0	.68	.60	.54	.67	.60	.54	.65	.59	.53	.63	.58	.53	.62	.57	.52	.50
6.0	.62	.54	.48	.61	.54	.48	.60	.53	.47	.58	.52	.47	.56	.51	.47	.45
7.0	.57	.49	.43	.56	.48	.43	.55	.48	.43	.53	.47	.42	.52	.46	.42	.40
8.0	.52	.44	.39	.51	.44	.39	.50	.43	.38	.49	.43	.38	.48	.42	.38	.36
9.0	.48	.40	.35	.47	.40	.35	.46	.40	.35	.45	.39	.35	.44	.39	.35	.33
10.0	.45	.37	.32	.44	.37	.32	.43	.36	.32	.42	.36	.32	.41	.36	.32	.30



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V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:56%
Test Distance:5.850m [K=1.0000]
Remarks:

WEC AND CCEC

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NAME: GAME-600-50W-830	TYPE:Ceiling light	SERIAL No.:
SPEC.:3000K	DIM.: ϕ 600mm*H78mm	
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	.264	.150	.048	.257	.147	.047	.244	.140	.045	.232	.134	.043	.221	.128	.041		
2.0	.253	.139	.043	.247	.136	.042	.236	.131	.041	.225	.126	.040	.215	.122	.038		
3.0	.238	.127	.038	.232	.124	.037	.223	.121	.037	.213	.117	.036	.205	.113	.035		
4.0	.222	.116	.034	.218	.114	.034	.209	.111	.033	.201	.108	.033	.193	.105	.032		
5.0	.208	.106	.031	.204	.105	.031	.196	.102	.030	.189	.100	.030	.182	.097	.029		
6.0	.195	.098	.028	.191	.097	.028	.185	.095	.028	.178	.093	.027	.172	.091	.027		
7.0	.183	.091	.026	.180	.090	.026	.174	.088	.025	.168	.086	.025	.163	.084	.025		
8.0	.172	.084	.024	.170	.083	.024	.164	.082	.023	.159	.080	.023	.154	.079	.023		
9.0	.163	.079	.022	.160	.078	.022	.155	.077	.022	.150	.075	.022	.146	.074	.021		
10.0	.154	.074	.020	.152	.073	.020	.147	.072	.020	.143	.071	.020	.139	.070	.020		

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	.177	.157	.138	.152	.134	.119	.104	.092	.082	.060	.053	.048	.019	.017	.015	
2.0	.167	.132	.103	.143	.114	.089	.098	.079	.062	.057	.046	.036	.018	.015	.012	
3.0	.158	.114	.079	.136	.098	.068	.093	.068	.048	.054	.040	.028	.017	.013	.009	
4.0	.150	.100	.062	.129	.087	.054	.089	.060	.038	.051	.035	.023	.017	.012	.007	
5.0	.143	.090	.050	.123	.078	.044	.085	.054	.031	.049	.032	.018	.016	.010	.006	
6.0	.136	.081	.042	.117	.070	.036	.081	.049	.026	.047	.029	.015	.015	.009	.005	
7.0	.130	.074	.035	.111	.064	.031	.077	.045	.022	.045	.027	.013	.014	.009	.004	
8.0	.124	.068	.030	.106	.059	.026	.074	.042	.019	.043	.025	.011	.014	.008	.004	
9.0	.118	.063	.027	.102	.055	.023	.070	.039	.016	.041	.023	.010	.013	.007	.003	
10.0	.113	.059	.023	.097	.051	.020	.067	.036	.015	.039	.021	.009	.013	.007	.003	

$H(\beta)$ Range:-90 - 90DEG
 $H(\beta)$ Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Myles
 Test Date:2019-01-05

$V(B)$ Range:-80 - 80DEG
 $V(B)$ Interval: 5.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:56%
 Test Distance:5.850m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:220.9V I:0.2530A P:50.35W PF:0.9010 Freq:49.90Hz Lamp Flux:6075.74x1 lm										
NAME: GAME-600-50W-830					TYPE:Ceiling light			SERIAL No.:		
SPEC.:3000K					DIM.: ϕ 600mm*H78mm					
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	11.4	12.7	11.6	12.9	13.1	11.7	13.1	12.0	13.3	13.5
3H	12.1	13.4	12.4	13.6	13.8	12.5	13.8	12.8	14.0	14.2
4H	12.4	13.6	12.7	13.9	14.1	12.9	14.1	13.2	14.3	14.6
6H	12.7	13.9	13.1	14.1	14.4	13.2	14.3	13.5	14.6	14.9
8H	12.8	13.9	13.1	14.2	14.4	13.3	14.4	13.6	14.6	14.9
12H	12.8	13.9	13.2	14.2	14.4	13.2	14.3	13.6	14.6	14.9
4H 2H	11.6	12.8	11.9	13.1	13.3	11.9	13.1	12.2	13.4	13.6
3H	12.6	13.6	12.9	13.9	14.2	12.9	14.0	13.3	14.3	14.6
4H	13.1	14.0	13.5	14.3	14.7	13.4	14.4	13.8	14.7	15.0
6H	13.5	14.4	13.9	14.7	15.1	13.9	14.7	14.3	15.1	15.4
8H	13.6	14.4	14.1	14.8	15.2	14.0	14.8	14.4	15.1	15.5
12H	13.7	14.4	14.1	14.8	15.2	14.0	14.7	14.4	15.1	15.5
8H 4H	13.3	14.0	13.7	14.4	14.8	13.6	14.4	14.0	14.7	15.1
6H	13.9	14.5	14.3	14.9	15.3	14.2	14.8	14.6	15.2	15.6
8H	14.1	14.6	14.5	15.1	15.5	14.3	14.9	14.8	15.3	15.8
12H	14.2	14.7	14.7	15.1	15.6	14.3	14.8	14.8	15.2	15.7
12H 4H	13.3	14.0	13.7	14.4	14.8	13.6	14.3	14.0	14.7	15.1
6H	13.9	14.5	14.4	14.9	15.4	14.2	14.8	14.7	15.2	15.6
8H	14.2	14.7	14.6	15.1	15.6	14.4	14.9	14.9	15.3	15.8
Variations with the observer position at spacings:										
S = 1.0H	+ 0.5 / - 0.6					+ 0.3 / - 0.4				
1.5H	+ 0.3 / - 0.3					+ 0.3 / - 0.3				
2.0H	+ 1.2 / - 0.7					+ 1.0 / - 0.8				

CIE Pub.117, 6076 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 6.3$)

$H(\beta)$ Range:-90 - 90DEG
 $H(\beta)$ Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
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$V(B)$ Range:-80 - 80DEG
 $V(B)$ Interval: 5.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:56%
 Test Distance:5.850m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.9V I:0.2530A P:50.35W PF:0.9010 Freq:49.90Hz Lamp Flux:6075.74x1 lm		
NAME: GAME-600-50W-830	TYPE:Ceiling light	SERIAL No.:
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MFR.: NEKO LIGHTING AG		

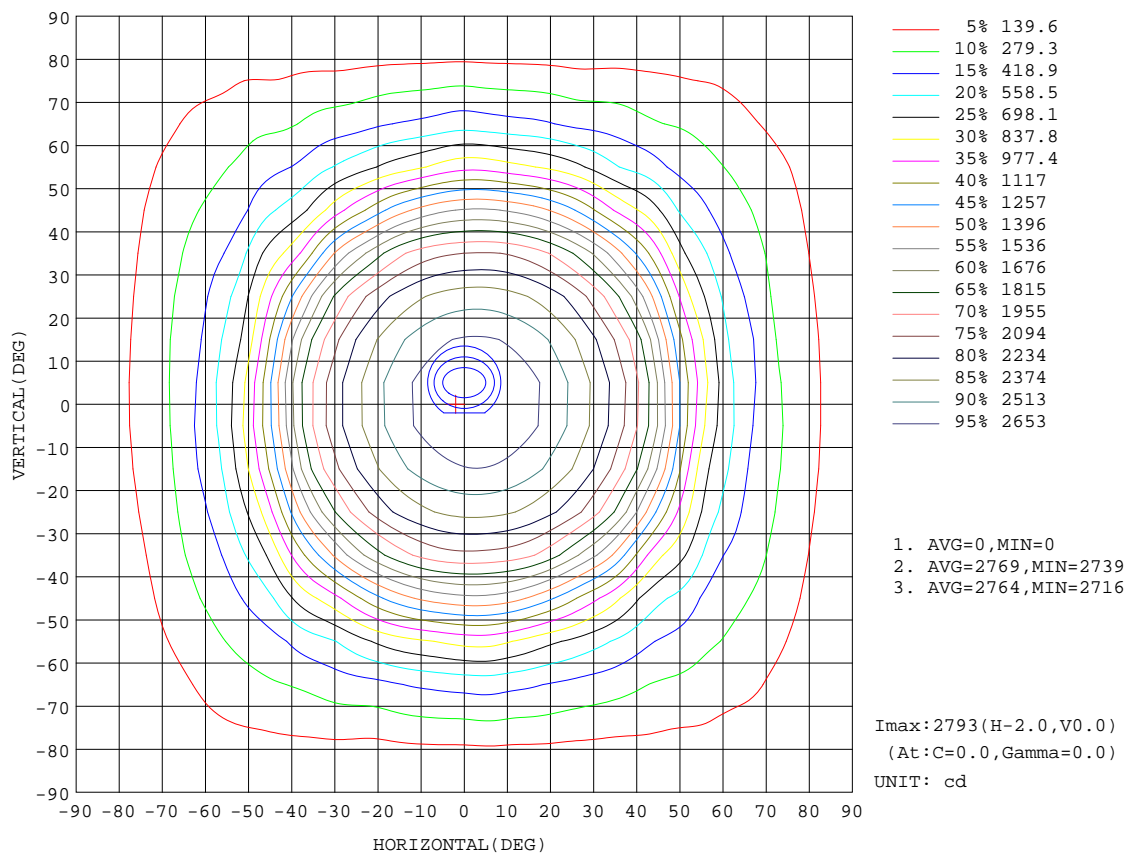
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	64	54	48	64	54	48	63	53	48	42
0.80	74	64	58	73	64	58	72	63	57	51
1.00	82	73	67	81	72	66	79	73	66	60
1.25	89	80	74	88	79	74	85	78	73	66
1.50	93	85	79	92	84	79	89	83	78	71
2.00	99	92	87	98	91	86	94	89	84	78
2.50	102	96	91	101	95	90	97	92	88	81
3.00	105	100	95	103	98	94	99	95	92	84
4.00	109	104	100	106	102	99	102	99	96	88
5.00	111	106	103	108	105	101	104	101	98	90
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

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Remarks:

ISOCANDELA DIAGRAM

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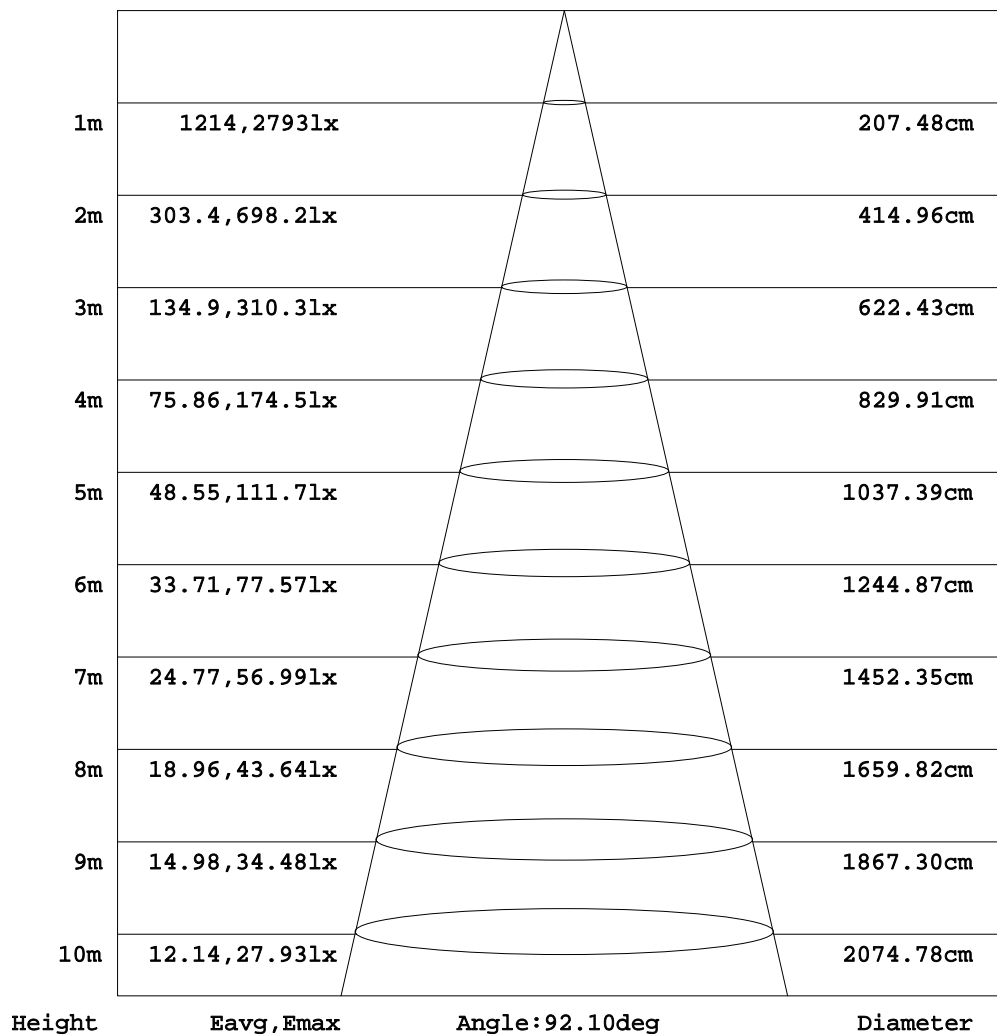
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AAI Figure

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MFR.: NEKO LIGHTING AG		

Flux out:4234 lm



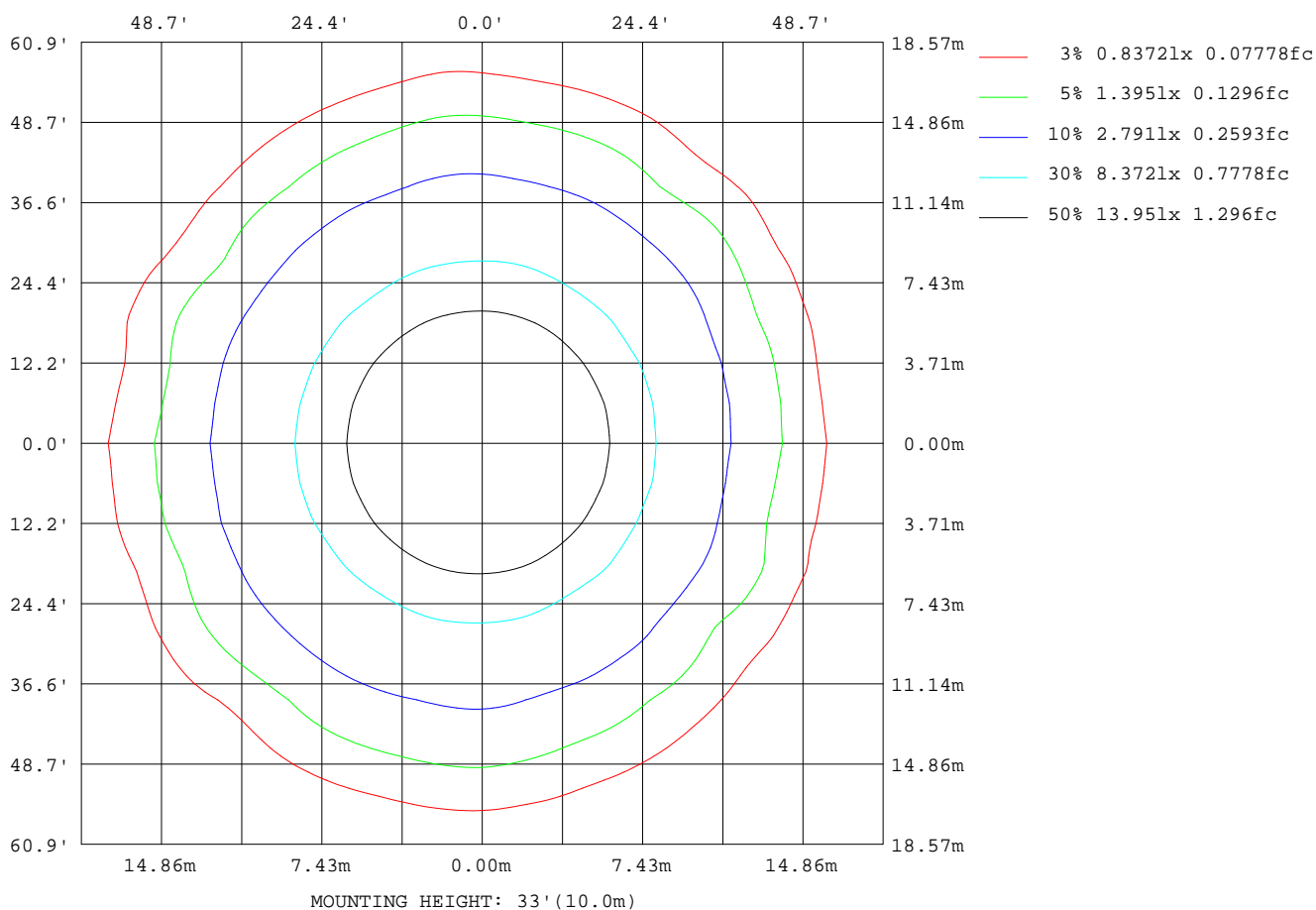
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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LED Avg.L Report

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SPEC.:3000K	DIM.: ϕ 600mm*H78mm	
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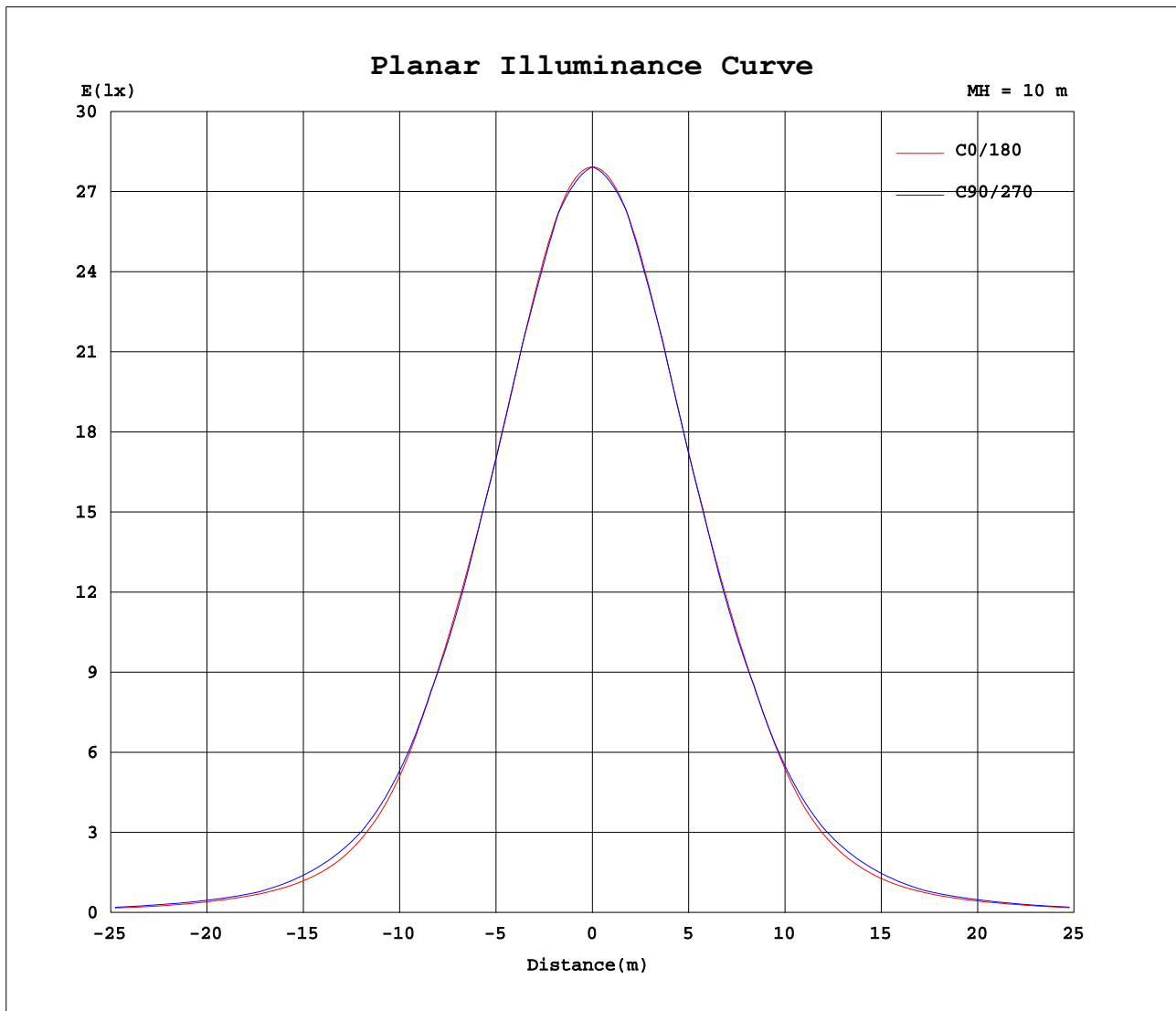
AvgL	cd/m2
L_0~180 (65) av	3521
L_0~180 (75) av	3078
L_0~180 (85) av	2620
L_90~270 (65) av	4016
L_90~270 (75) av	3305
L_90~270 (85) av	0
L_45 (65) av	3579
L_45 (75) av	3121
L_45 (85) av	1657

Standard: GB/T 29293-2012

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Myles
Test Date:2019-01-05

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:56%
Test Distance:5.850m [K=1.0000]
Remarks:

Planar Illuminance Curve



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Myles
Test Date:2019-01-05

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:56%
Test Distance:5.850m [K=1.0000]
Remarks:

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:56%
Test Distance:5.850m [K=1.0000]
Remarks:

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:56%
Test Distance:5.850m [K=1.0000]
Remarks:

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:56%
Test Distance:5.850m [K=1.0000]
Remarks:

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:56%
Test Distance:5.850m [K=1.0000]
Remarks: