

SDRC-10W-927-36°



Light Output Ratio:	100.0%	
Luminaire Power:	9.855 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.60	fine grid method.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason
Test Date: 2021-12-21

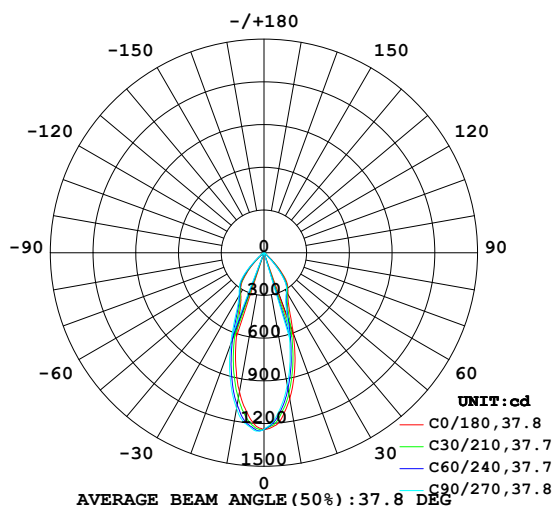
γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 58%
Test Distance: 8.967m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

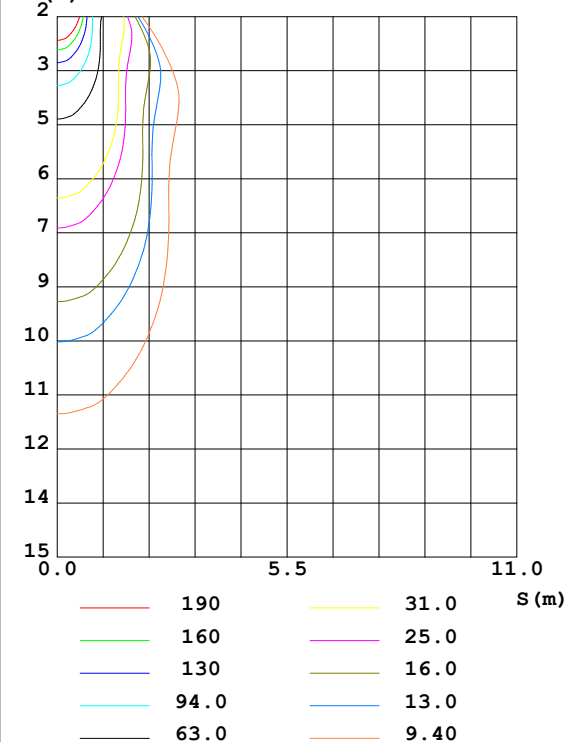
Test:U:220.8V I:0.0488A P:9.855W PF:0.9151 Freq:50.09Hz Lamp Flux:811.829x1 lm		
NAME: SDRC-10W-927-36°	TYPE:Outdoor Light	SERIAL No.:
SPEC.:2700K	DIM.: φ90xH110mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 82.38 lm/W			
MODEL	2700K	I _{max} (cd)	1256	S/MH (C0/180)	0.60
NOMINAL POWER (W)	10	LOR (%)	100.0	S/MH (C90/270)	0.69
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	811.83	η UP, DN (C0-180)	0.0, 46.2
NOMINAL FLUX (lm)	811.829	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 53.8
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE (V)	220	η down (%)	100.0	CIBSE SHR MAX	0.60

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	1042	990.5	944.2	946.6	991.7	1055	1110	1090	0- 10	107.5	107.5	13.2,13.2
20	600.4	523.9	476.5	488.2	541.4	611.9	684.1	673.9	10- 20	221.4	328.9	40.5,40.5
30	336.8	324.3	315.6	318.2	328.4	337.8	353.0	351.8	20- 30	192.5	521.4	64.2,64.2
40	222.2	190.3	171.0	174.3	198.3	224.8	248.5	247.1	30- 40	174.8	696.2	85.8,85.8
50	34.18	27.13	24.48	24.87	27.32	36.60	47.86	45.06	40- 50	83.21	779.4	96,96
60	14.10	12.45	11.25	11.56	12.89	14.48	16.21	15.67	50- 60	18.54	797.9	98.3,98.3
70	6.386	6.153	6.340	6.357	5.905	5.891	6.422	6.577	60- 70	9.021	806.9	99.4,99.4
80	1.948	1.244	0.4833	0.3309	0.2838	0.4427	1.456	2.150	70- 80	4.577	811.5	100,100
90	0.1706	0.1041	0.0262	0.0210	0.0517	0.0521	0.0576	0.1734	80- 90	0.3290	811.8	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): 754.03 lm

%lum = 92.9%

%lamp = 92.9%

Conical surface Flux(120deg): 797.9 lm

%lum = 98.3%

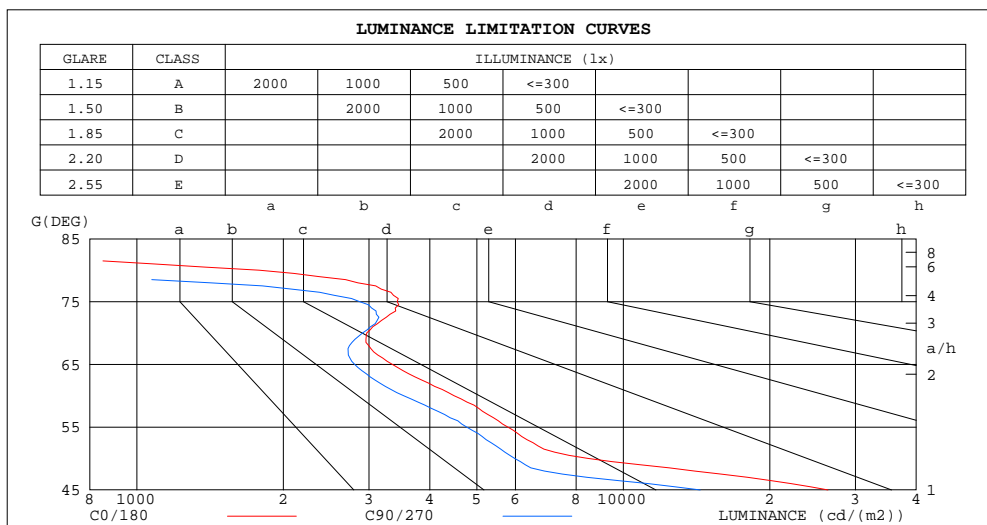
%lamp = 98.3%

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 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

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SPEC.:2700K	DIM.: φ90xH110mm	
MFR.: NEKO LIGHTING AG		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	633	482
80	1784	437
75	3427	2867
70	2970	2911
65	3349	2803
60	4486	3533
55	5785	4764
50	8456	5980
45	26346	14383

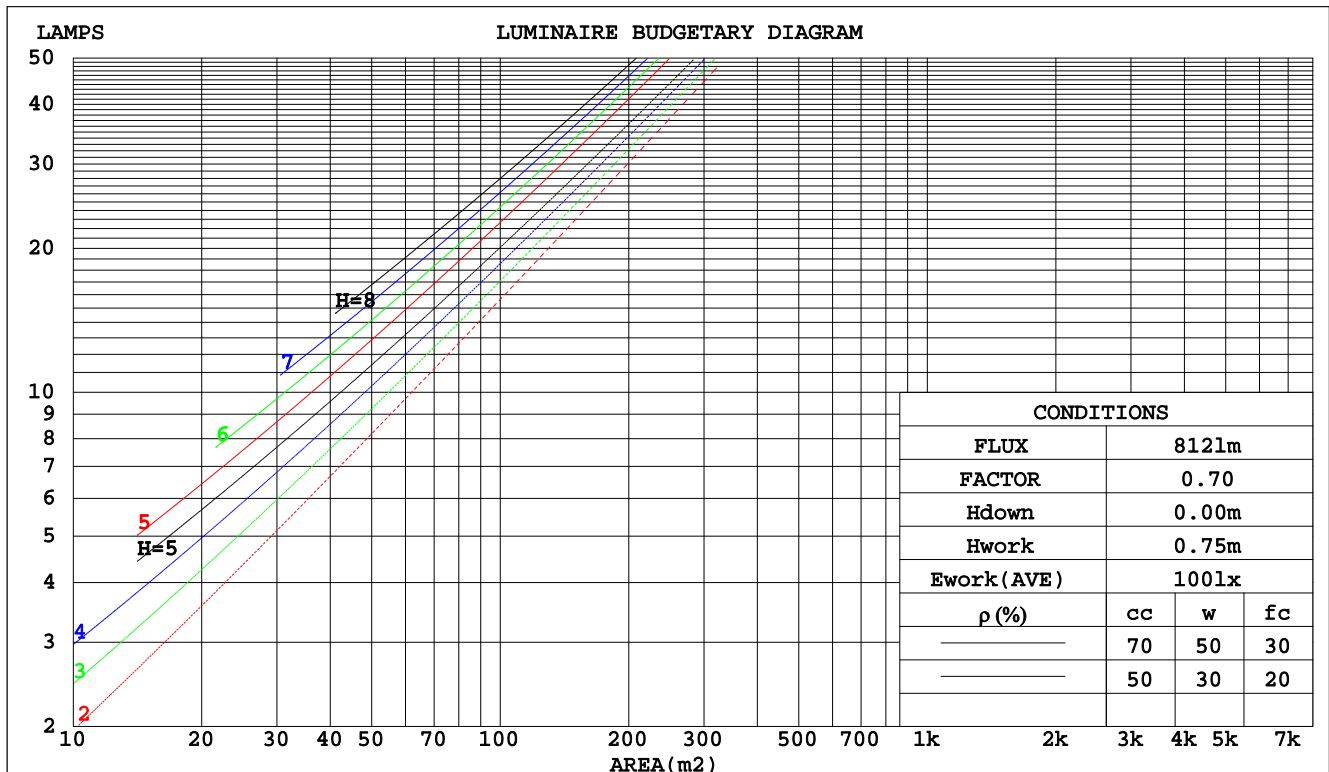
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.:2700K	DIM.: φ90xH110mm	
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															



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WEC AND CCEC

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SPEC.:2700K	DIM.: φ90xH110mm	
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	.185	.105	.033	.179	.102	.032	.166	.095	.030	.154	.089	.029	.144	.083	.027		
2.0	.178	.098	.030	.173	.095	.029	.162	.090	.028	.152	.085	.027	.143	.081	.025		
3.0	.170	.090	.027	.165	.088	.027	.156	.084	.026	.147	.081	.025	.139	.077	.024		
4.0	.161	.084	.025	.157	.082	.024	.149	.079	.024	.142	.076	.023	.135	.073	.022		
5.0	.153	.078	.023	.150	.077	.022	.143	.074	.022	.136	.072	.021	.130	.070	.021		
6.0	.146	.073	.021	.143	.072	.021	.137	.070	.020	.131	.068	.020	.126	.066	.020		
7.0	.139	.069	.019	.136	.068	.019	.131	.066	.019	.126	.064	.019	.121	.063	.018		
8.0	.133	.065	.018	.130	.064	.018	.125	.063	.018	.121	.061	.018	.116	.060	.017		
9.0	.127	.061	.017	.124	.061	.017	.120	.059	.017	.116	.058	.017	.112	.057	.016		
10.0	.121	.058	.016	.119	.058	.016	.115	.056	.016	.112	.055	.016	.108	.054	.016		

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	.172	.157	.144	.147	.135	.124	.100	.093	.086	.058	.054	.050	.019	.017	.016	
2.0	.157	.132	.112	.135	.114	.097	.092	.079	.067	.053	.046	.039	.017	.015	.013	
3.0	.145	.114	.088	.124	.098	.077	.085	.068	.054	.049	.040	.032	.016	.013	.010	
4.0	.135	.099	.071	.116	.086	.062	.080	.060	.044	.046	.035	.026	.015	.011	.008	
5.0	.127	.088	.059	.109	.076	.051	.075	.053	.036	.043	.031	.021	.014	.010	.007	
6.0	.119	.078	.049	.103	.068	.043	.071	.047	.030	.041	.028	.018	.013	.009	.006	
7.0	.113	.071	.041	.097	.061	.036	.067	.043	.026	.039	.025	.015	.013	.008	.005	
8.0	.107	.065	.035	.092	.056	.031	.064	.039	.022	.037	.023	.013	.012	.008	.004	
9.0	.102	.059	.031	.088	.052	.027	.061	.036	.019	.035	.021	.011	.011	.007	.004	
10.0	.097	.055	.027	.084	.048	.024	.058	.034	.017	.034	.020	.010	.011	.007	.003	

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
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Test Date:2021-12-21

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:220.8V I:0.0488A P:9.855W PF:0.9151 Freq:50.09Hz Lamp Flux:811.829x1 lm										
NAME: SDRG-10W-927-36°					TYPE:Outdoor Light			SERIAL No.:		
SPEC.:2700K					DIM.: φ90xH110mm					
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	19.7	20.7	19.9	20.8	21.0	18.7	19.7	19.0	19.9	20.1
3H	19.6	20.5	19.9	20.7	20.9	18.7	19.6	18.9	19.8	20.0
4H	19.6	20.5	19.9	20.7	20.9	18.7	19.5	19.0	19.8	20.0
6H	19.6	20.4	19.9	20.6	20.9	18.6	19.4	18.9	19.7	19.9
8H	19.5	20.3	19.8	20.6	20.8	18.6	19.3	18.9	19.6	19.9
12H	19.5	20.2	19.8	20.5	20.8	18.5	19.3	18.8	19.5	19.8
4H 2H	19.5	20.3	19.7	20.5	20.8	18.5	19.4	18.8	19.6	19.8
3H	19.4	20.2	19.8	20.5	20.7	18.5	19.3	18.9	19.6	19.8
4H	19.5	20.2	19.8	20.5	20.8	18.6	19.3	19.0	19.6	19.9
6H	19.5	20.1	19.9	20.4	20.8	18.5	19.1	18.9	19.5	19.8
8H	19.4	20.0	19.8	20.3	20.7	18.5	19.0	18.9	19.4	19.8
12H	19.4	19.9	19.8	20.3	20.7	18.5	19.0	18.9	19.3	19.7
8H 4H	19.4	20.0	19.8	20.3	20.7	18.5	19.1	18.9	19.4	19.8
6H	19.4	19.9	19.8	20.3	20.7	18.5	18.9	18.9	19.3	19.7
8H	19.4	19.8	19.8	20.2	20.6	18.4	18.8	18.9	19.3	19.7
12H	19.3	19.6	19.8	20.1	20.6	18.4	18.7	18.9	19.2	19.6
12H 4H	19.4	19.9	19.8	20.2	20.6	18.5	19.0	18.9	19.4	19.8
6H	19.4	19.8	19.8	20.2	20.6	18.4	18.8	18.9	19.3	19.7
8H	19.3	19.6	19.8	20.1	20.6	18.4	18.7	18.9	19.2	19.6
Variations with the observer position at spacings:										
S = 1.0H	+ 2.4 / - 5.9					+ 2.3 / - 5.9				
1.5H	+ 4.3 / - 5.6					+ 4.4 / - 5.2				
2.0H	+ 6.4 / - 3.4					+ 4.2 / - 2.2				

CIE Pub.117, 811.8 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.7)

C Range: 0 - 360DEG
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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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UTILIZATION FACTORS TABLE

Test:U:220.8V I:0.0488A P:9.855W PF:0.9151 Freq:50.09Hz Lamp Flux:811.829x1 lm		
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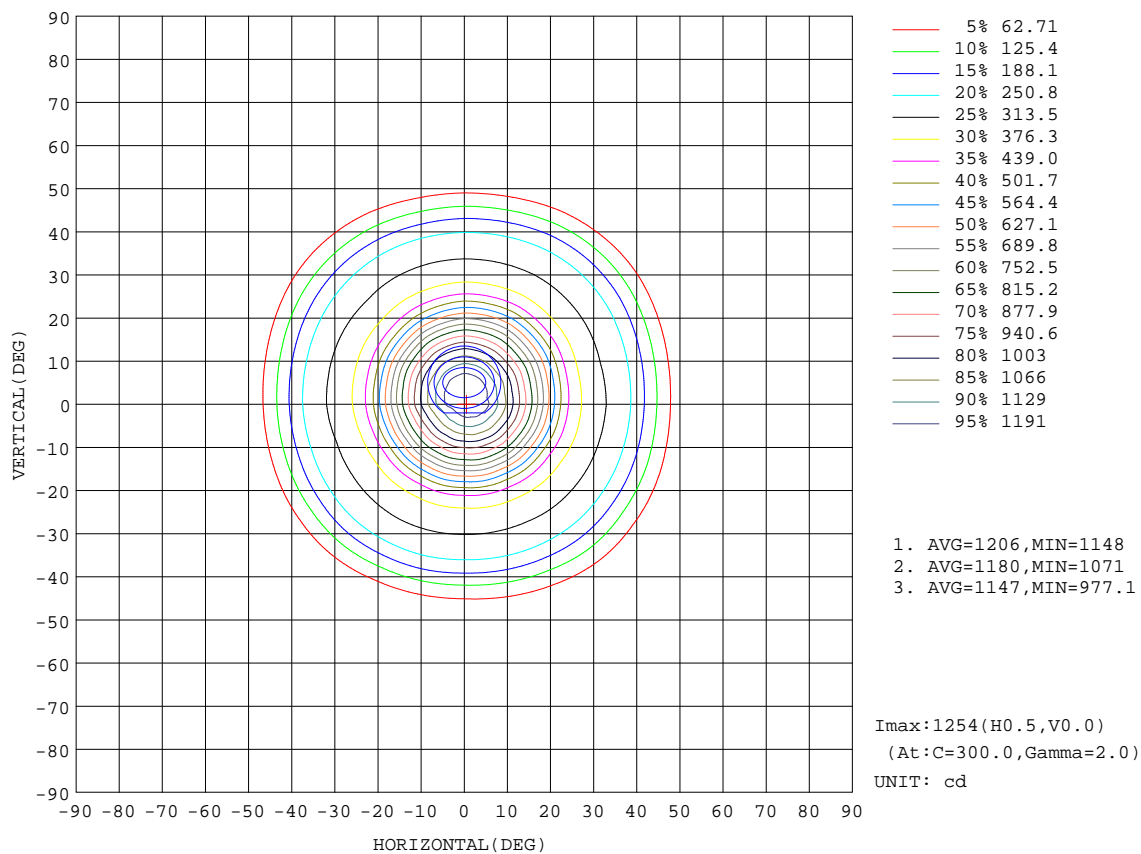
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	83	75	71	82	75	71	81	75	71	67
0.80	91	84	80	90	84	80	89	83	79	75
1.00	96	90	86	95	89	85	94	89	85	81
1.25	101	95	91	100	94	91	98	93	90	85
1.50	104	98	95	103	98	94	100	96	93	88
2.00	107	102	99	106	101	98	103	99	97	91
2.50	109	105	101	107	104	101	104	101	99	92
3.00	111	107	104	109	106	103	105	103	101	94
4.00	113	110	107	111	108	106	107	105	103	96
5.00	114	112	110	112	110	108	108	106	105	97
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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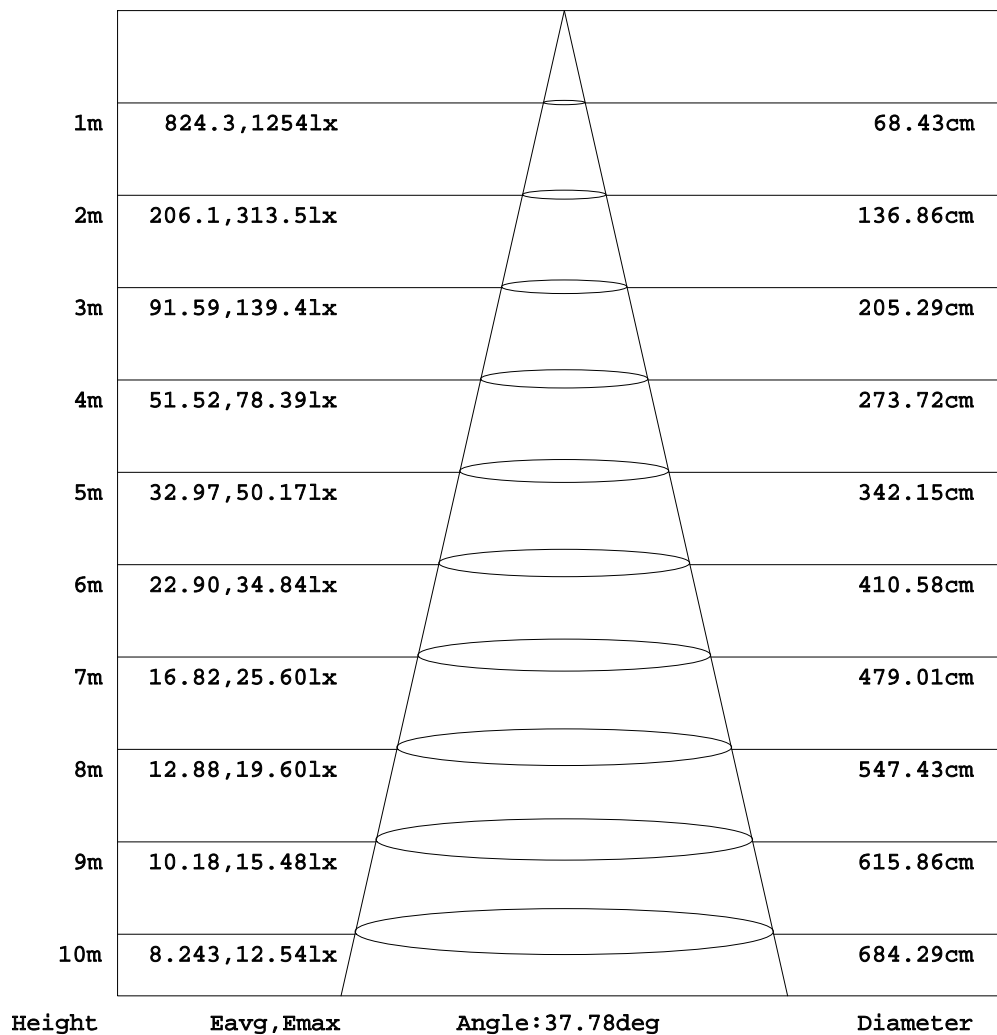
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AAI Figure

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SPEC.:2700K	DIM.: φ90xH110mm	
MFR.: NEKO LIGHTING AG		

Flux out:307.0 lm



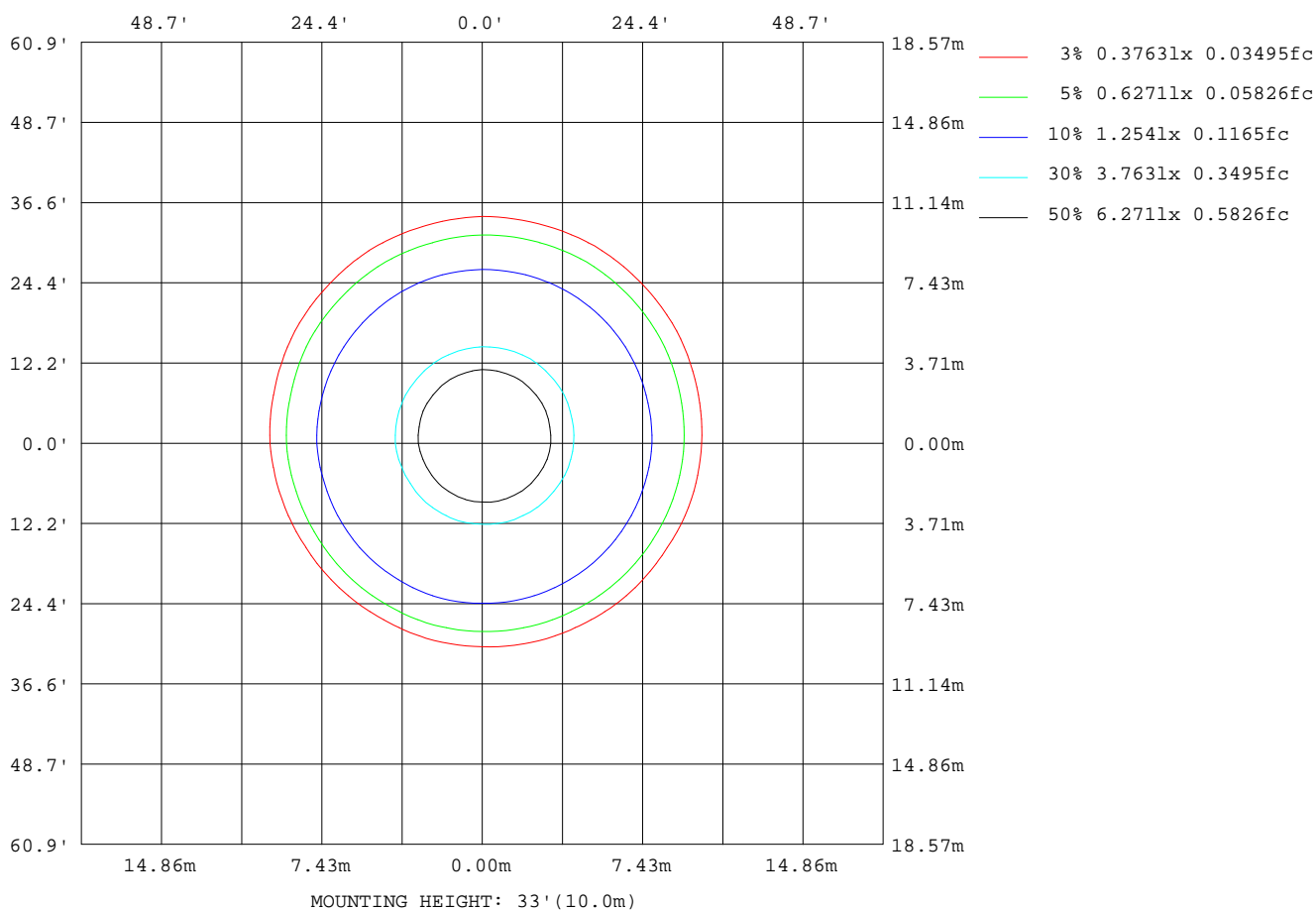
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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LED Avg.L Report

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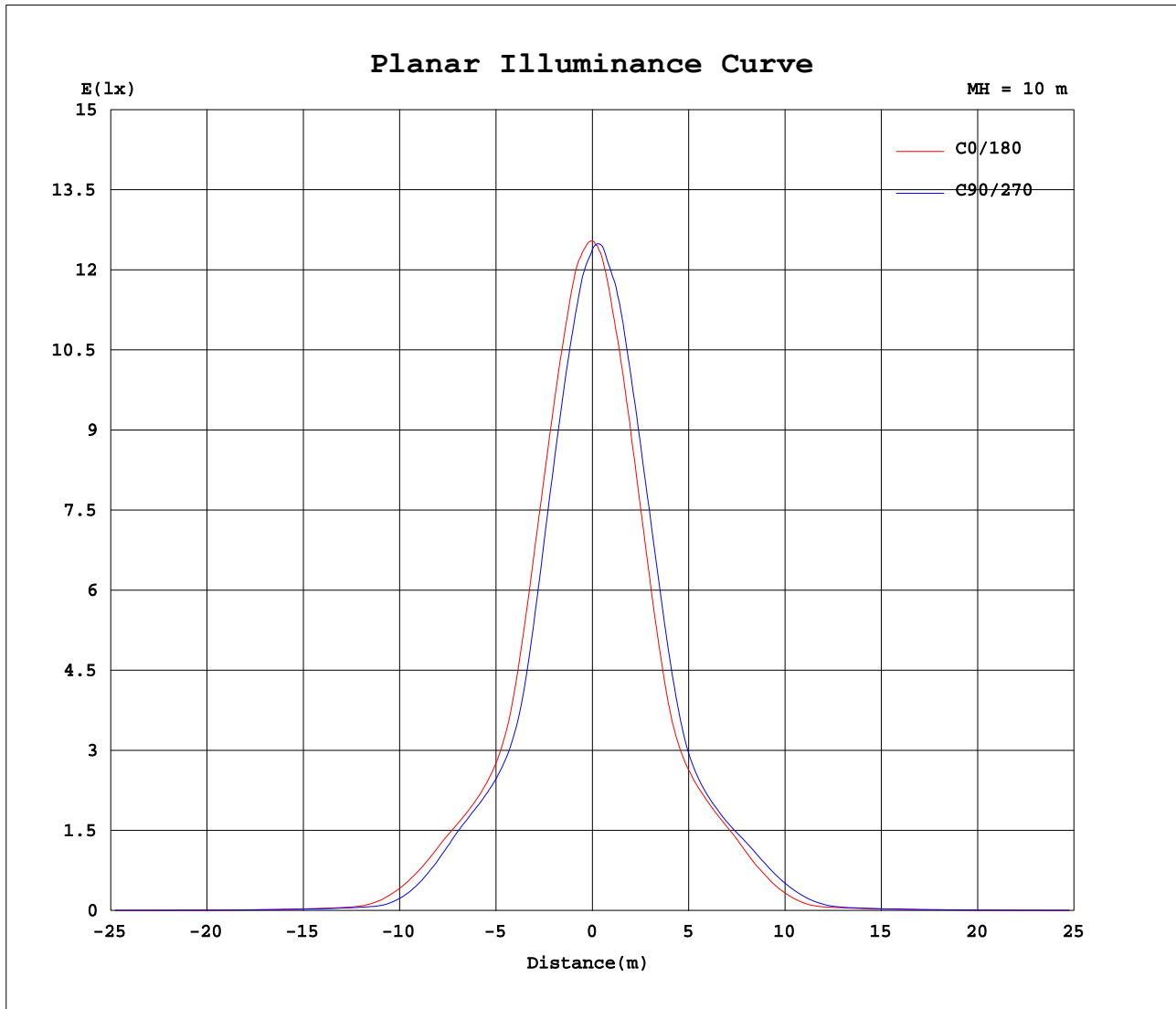
AvgL	cd/m2
L_0~180 (65) av	3216
L_0~180 (75) av	2953
L_0~180 (85) av	467
L_90~270 (65) av	3316
L_90~270 (75) av	2934
L_90~270 (85) av	402
L_45 (65) av	3239
L_45 (75) av	2980
L_45 (85) av	455

Standard: GB/T 29293-2012

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Planar Illuminance Curve



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