

PEPPER400-30W-940



Light Output Ratio:	100.0%	
Luminaire Power:	29.33 W	
SHR Nominal:	1.25	Calculated using the TM5
SHR Maximum:	1.30	fine grid method.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jasoan
Test Date: 2022-08-01

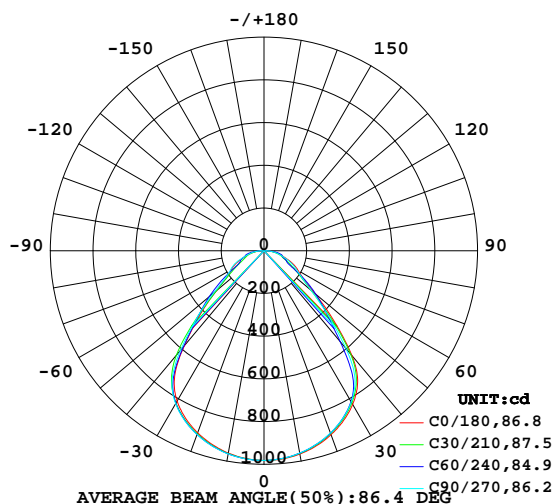
γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 58%
Test Distance: 8.967m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

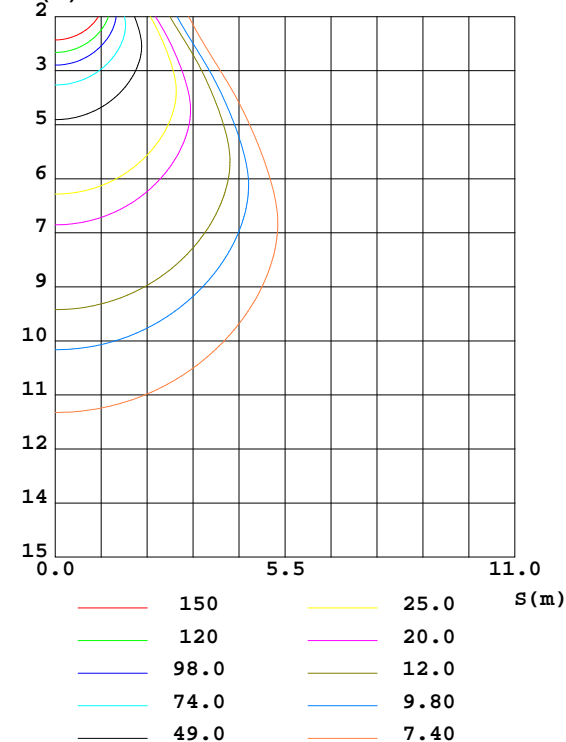
Test:U:221.0V I:0.1344A P:29.33W PF:0.9874 Freq:49.99Hz Lamp Flux:2008.18x1 lm		
NAME: PEPPER400-30W-940	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: L400mm*W400mm*H45mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 68.47 lm/W			
MODEL	4000K	I _{max} (cd)	982.8	S/MH(C0/180)	1.21
NOMINAL POWER(W)	30	LOR(%)	100.0	S/MH(C90/270)	1.23
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	2008.2	η UP,DN(C0-180)	0.0,49.4
NOMINAL FLUX(lm)	2008.18	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,50.6
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	220	η down(%)	100.0	CIBSE SHR MAX	1.30

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	966.6	962.9	962.0	961.4	962.0	964.7	965.8	967.4	0- 10	92.87	92.87	4.62,4.62
20	916.8	910.9	908.3	906.9	907.5	913.6	915.9	917.7	10- 20	265.9	358.8	17.9,17.9
30	830.6	819.7	817.1	812.9	813.2	824.1	826.9	832.3	20- 30	401.9	760.7	37.9,37.9
40	639.9	586.6	596.3	605.2	581.0	605.8	607.8	662.4	30- 40	459.6	1220	60.8,60.8
50	309.9	296.1	287.8	279.7	290.4	305.9	308.7	305.8	40- 50	340.2	1561	77.7,77.7
60	183.8	163.5	175.6	146.7	176.7	177.0	181.6	154.4	50- 60	196.3	1757	87.5,87.5
70	116.3	119.5	109.4	89.89	112.0	121.2	118.8	95.43	60- 70	129.8	1887	94,94
80	61.71	61.89	58.25	51.06	56.35	62.61	60.92	58.52	70- 80	87.40	1974	98.3,98.3
90	1.153	0.3754	0.4018	0.3754	0.7243	0.6926	0.8988	1.829	80- 90	34.05	2008	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): 1413 lm

%lum = 70.4%

%lamp = 70.4%

Conical surface Flux(120deg): 1756.9 lm

%lum = 87.5%

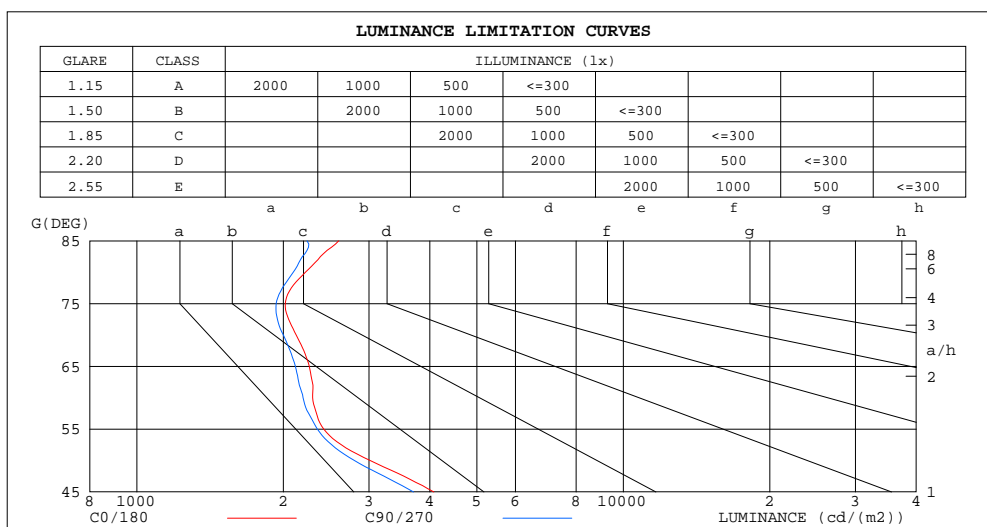
%lamp = 87.5%

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Humidity:58%
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Remarks:

LUMINANCE LIMITATION CURVES

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SPEC.:4000K	DIM.: L400mm*W400mm*H45mm	
MFR.: NEKO LIGHTING AG		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	2600	2238
80	2221	2096
75	2019	1933
70	2126	2000
65	2261	2117
60	2297	2196
55	2422	2350
50	3014	2799
45	4077	3704

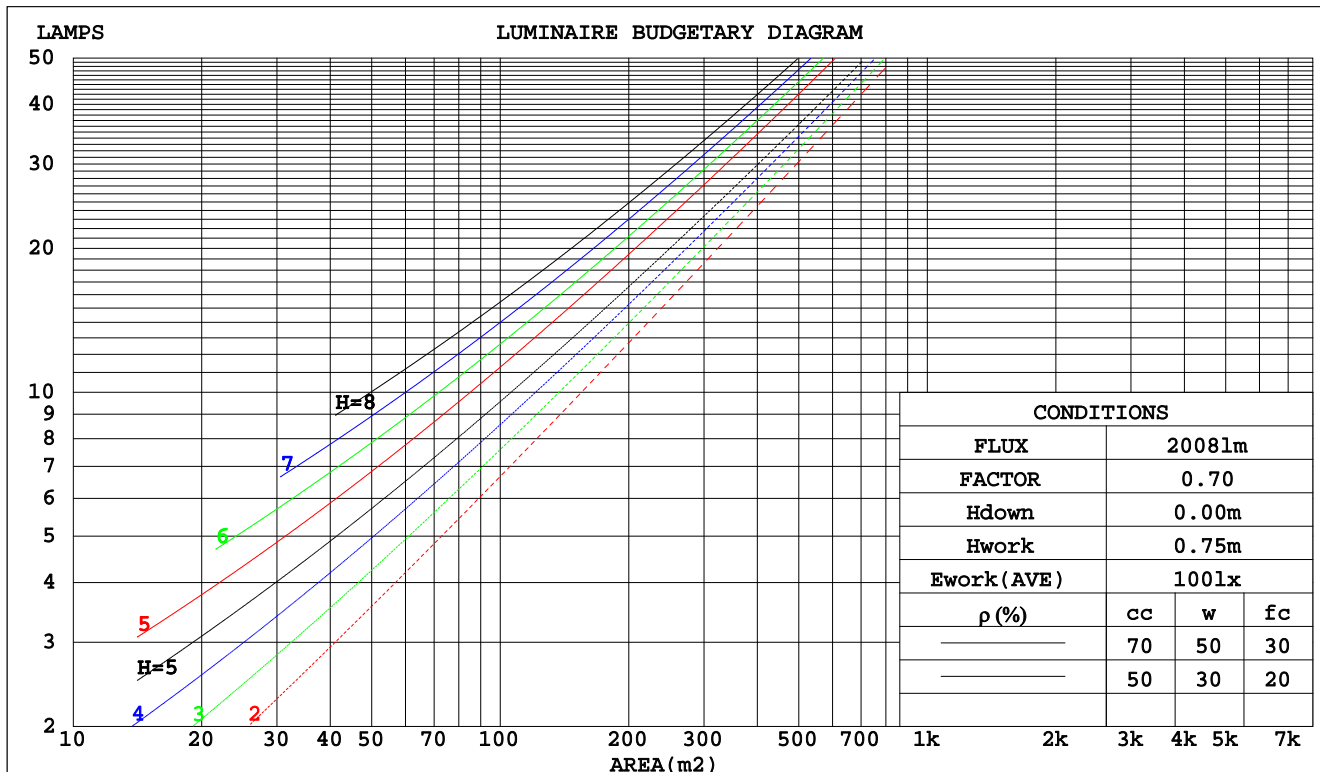
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.:4000K	DIM.: L400mm*W400mm*H45mm	
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	1.06	1.02	.99	1.04	1.00	.97	.90	.97	.94	.96	.94	.91	.92	.90	.89	.87
2.0	.95	.89	.84	.93	.87	.83	.89	.85	.81	.86	.82	.79	.83	.80	.77	.75
3.0	.85	.78	.72	.83	.77	.71	.81	.75	.70	.78	.73	.69	.75	.71	.68	.66
4.0	.77	.69	.63	.75	.68	.63	.73	.67	.62	.71	.65	.61	.69	.64	.60	.58
5.0	.70	.62	.56	.68	.61	.55	.66	.60	.55	.65	.59	.54	.63	.58	.54	.52
6.0	.63	.55	.50	.62	.55	.49	.61	.54	.49	.59	.53	.49	.58	.52	.48	.46
7.0	.58	.50	.45	.57	.50	.44	.56	.49	.44	.54	.48	.44	.53	.48	.44	.42
8.0	.53	.46	.40	.53	.45	.40	.52	.45	.40	.50	.44	.40	.49	.44	.40	.38
9.0	.49	.42	.37	.49	.42	.37	.48	.41	.36	.47	.41	.36	.46	.40	.36	.34
10.0	.46	.39	.34	.45	.38	.34	.44	.38	.33	.44	.38	.33	.43	.37	.33	.32



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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	.267	.152	.048	.260	.149	.047	.247	.142	.045	.235	.136	.044	.224	.130	.042		
2.0	.251	.138	.042	.245	.135	.042	.234	.130	.040	.224	.125	.039	.214	.121	.038		
3.0	.234	.125	.037	.229	.123	.037	.219	.119	.036	.210	.115	.035	.202	.112	.035		
4.0	.219	.114	.033	.214	.112	.033	.205	.109	.033	.197	.106	.032	.190	.103	.031		
5.0	.204	.104	.030	.200	.103	.030	.192	.100	.029	.185	.098	.029	.178	.095	.029		
6.0	.191	.096	.027	.188	.095	.027	.181	.093	.027	.174	.091	.027	.168	.089	.026		
7.0	.180	.089	.025	.176	.088	.025	.170	.086	.025	.165	.084	.025	.159	.083	.024		
8.0	.169	.083	.023	.166	.082	.023	.161	.080	.023	.156	.079	.023	.151	.077	.023		
9.0	.160	.077	.022	.157	.077	.022	.152	.075	.021	.148	.074	.021	.143	.073	.021		
10.0	.151	.073	.020	.149	.072	.020	.144	.071	.020	.140	.070	.020	.136	.069	.020		

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	.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	.056	.046	.036	.018	.015	.012	
3.0	.158	.114	.079	.135	.098	.069	.093	.068	.048	.054	.040	.028	.017	.013	.009	
4.0	.149	.100	.063	.128	.087	.055	.088	.060	.038	.051	.035	.023	.016	.012	.007	
5.0	.142	.090	.051	.122	.077	.044	.084	.054	.031	.049	.032	.019	.016	.010	.006	
6.0	.135	.081	.042	.116	.070	.037	.080	.049	.026	.046	.029	.016	.015	.009	.005	
7.0	.128	.074	.036	.110	.064	.031	.076	.045	.022	.044	.026	.013	.014	.009	.004	
8.0	.122	.068	.031	.105	.059	.027	.073	.041	.019	.042	.024	.011	.014	.008	.004	
9.0	.117	.063	.027	.100	.055	.023	.070	.038	.017	.041	.023	.010	.013	.007	.003	
10.0	.111	.059	.024	.096	.051	.021	.067	.036	.015	.039	.021	.009	.013	.007	.003	

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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:

UGR(Unified Glare Rating) Table

Test:U:221.0V I:0.1344A P:29.33W PF:0.9874 Freq:49.99Hz Lamp Flux:2008.18x1 lm										
NAME: PEPPER400-30W-940					TYPE:Downlight			SERIAL No.:		
SPEC.:4000K					DIM.: L400mm*W400mm*H45mm					
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	12.7	14.0	12.9	14.2	14.4	12.6	14.0	12.9	14.1	14.3
3H	13.5	14.7	13.8	15.0	15.2	13.7	14.9	14.0	15.2	15.4
4H	14.0	15.2	14.3	15.4	15.7	14.3	15.5	14.6	15.7	15.9
6H	14.6	15.7	14.9	16.0	16.2	14.9	16.0	15.2	16.2	16.5
8H	14.9	15.9	15.2	16.2	16.5	15.1	16.2	15.4	16.5	16.7
12H	15.1	16.1	15.4	16.4	16.7	15.3	16.3	15.7	16.6	16.9
4H 2H	13.0	14.2	13.3	14.4	14.6	12.9	14.1	13.2	14.3	14.6
3H	14.0	15.1	14.4	15.4	15.6	14.2	15.3	14.6	15.5	15.8
4H	14.7	15.7	15.1	16.0	16.3	15.1	16.0	15.4	16.3	16.6
6H	15.5	16.3	15.9	16.7	17.0	15.9	16.7	16.3	17.1	17.4
8H	15.8	16.6	16.2	17.0	17.3	16.3	17.0	16.7	17.4	17.8
12H	16.1	16.8	16.6	17.2	17.6	16.6	17.3	17.0	17.6	18.0
8H 4H	15.1	15.8	15.5	16.2	16.6	15.3	16.1	15.7	16.5	16.8
6H	16.0	16.6	16.4	17.0	17.4	16.5	17.1	16.9	17.5	17.9
8H	16.4	17.0	16.9	17.4	17.9	17.0	17.6	17.5	18.0	18.4
12H	16.8	17.3	17.3	17.8	18.2	17.4	17.9	17.9	18.4	18.8
12H 4H	15.1	15.8	15.5	16.2	16.6	15.4	16.1	15.8	16.5	16.9
6H	16.1	16.7	16.6	17.1	17.5	16.5	17.1	17.0	17.5	18.0
8H	16.6	17.1	17.1	17.5	18.0	17.2	17.7	17.6	18.1	18.6
Variations with the observer position at spacings:										
S = 1.0H	+ 0.4 / - 0.5					+ 0.3 / - 0.4				
1.5H	+ 0.6 / - 0.5					+ 0.3 / - 0.4				
2.0H	+ 1.0 / - 0.5					+ 0.6 / - 0.4				

CIE Pub.117, 2008 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 2.4$)

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UTILIZATION FACTORS TABLE

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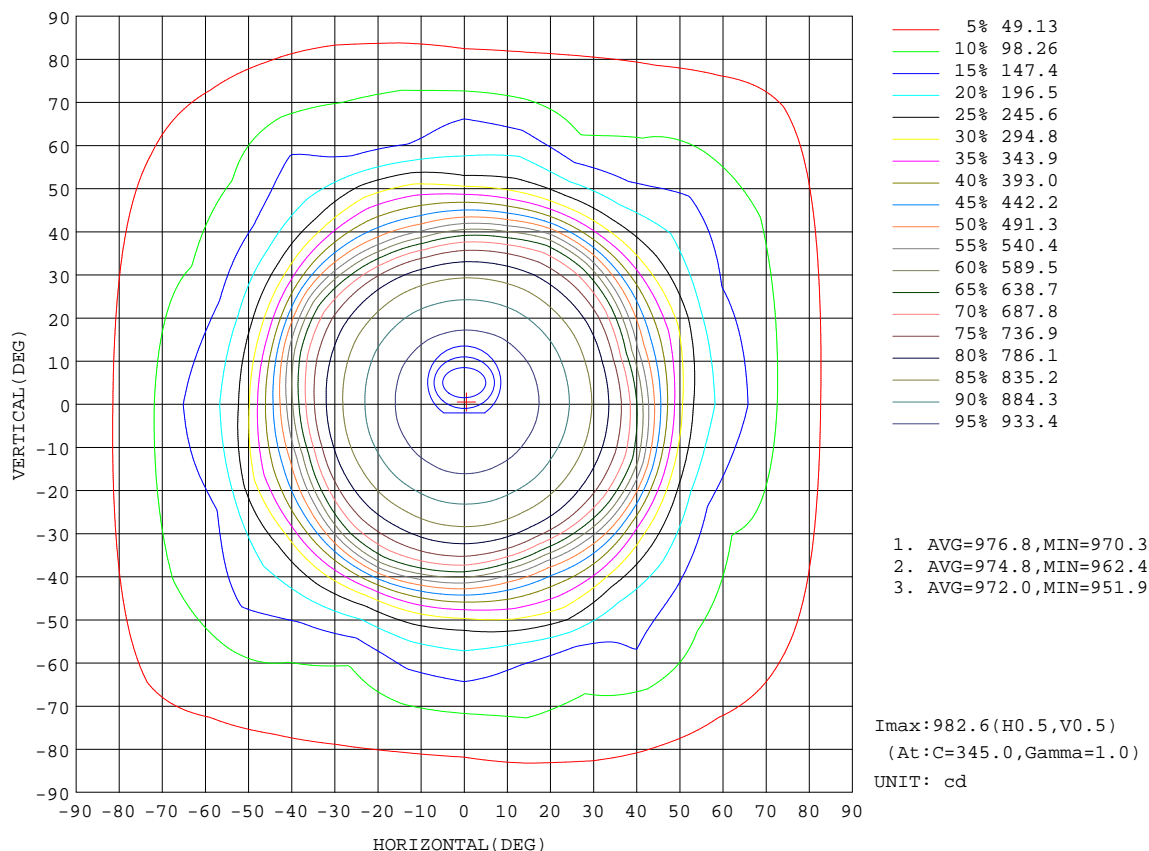
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	67	57	51	67	57	51	66	57	51	46
0.80	77	67	61	76	67	61	74	66	60	55
1.00	84	75	69	83	74	69	81	75	68	62
1.25	90	82	76	89	81	75	86	80	75	68
1.50	94	86	81	93	86	80	90	84	79	73
2.00	100	93	88	98	92	87	95	90	85	78
2.50	103	96	92	101	95	91	97	93	89	81
3.00	106	100	95	104	98	94	100	96	92	84
4.00	109	104	100	106	102	99	102	99	96	88
5.00	111	107	103	108	105	102	104	101	99	90
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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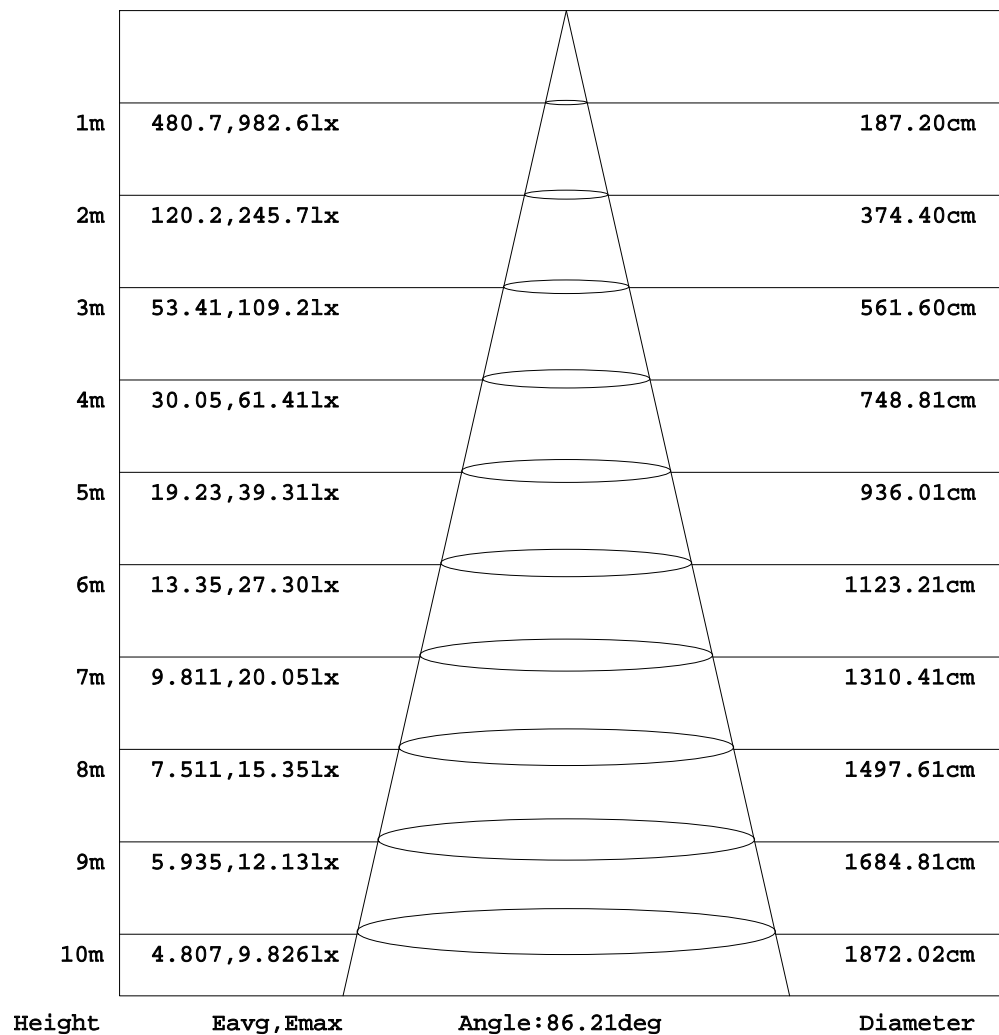
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AAI Figure

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Flux out:1360 lm



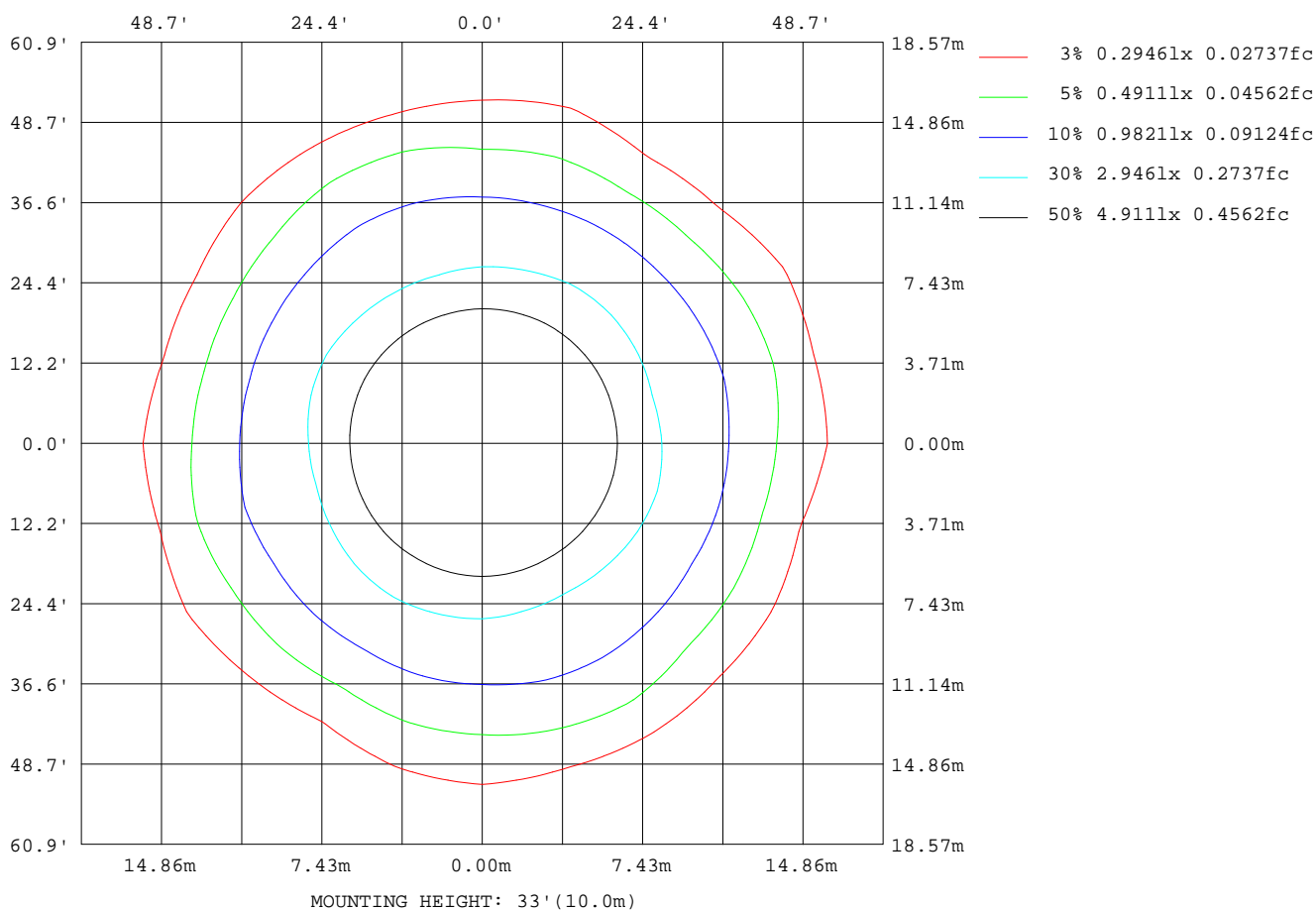
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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LED Avg.L Report

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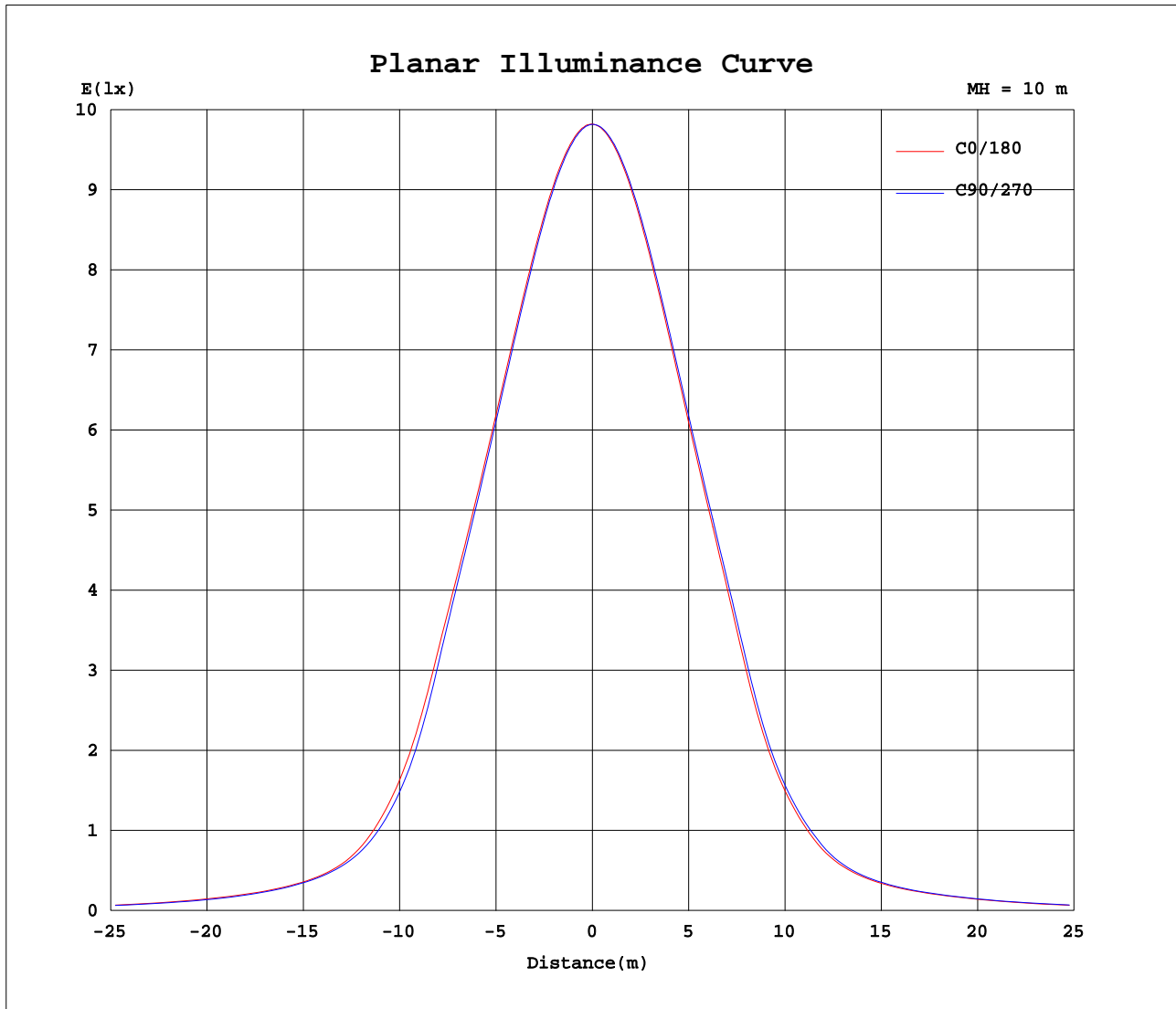
AvgL	cd/m2
L_0~180(65)av	2228
L_0~180(75)av	1966
L_0~180(85)av	2334
L_90~270(65)av	2204
L_90~270(75)av	1971
L_90~270(85)av	2374
L_45(65)av	1956
L_45(75)av	1941
L_45(85)av	2249

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jasoan
Test Date:2022-08-01

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: 2022-08-01

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:

```