

LED Tracklight PURE M-28W-840-18



Light Output Ratio:	100.0%	
Luminaire Power:	27.98 W	
SHR Nominal:	0.00	Calculated using the TM5
SHR Maximum:	1.00	fine grid method.

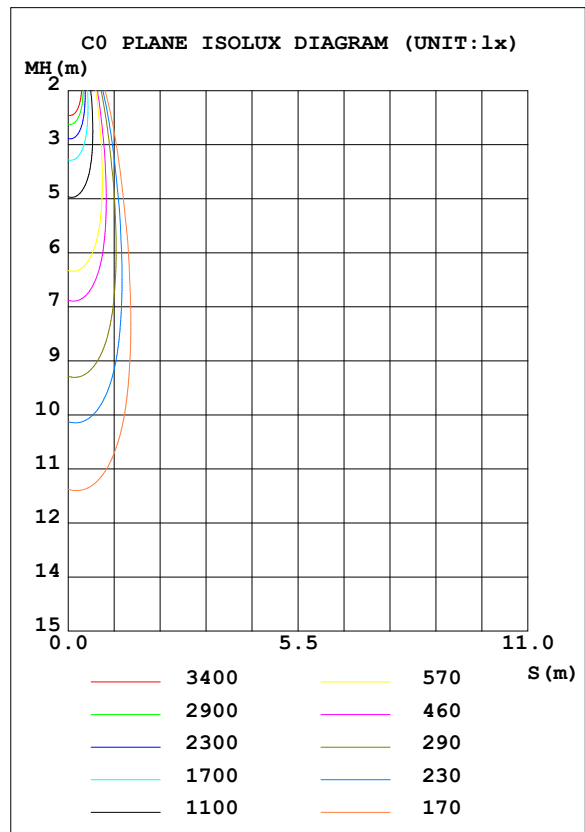
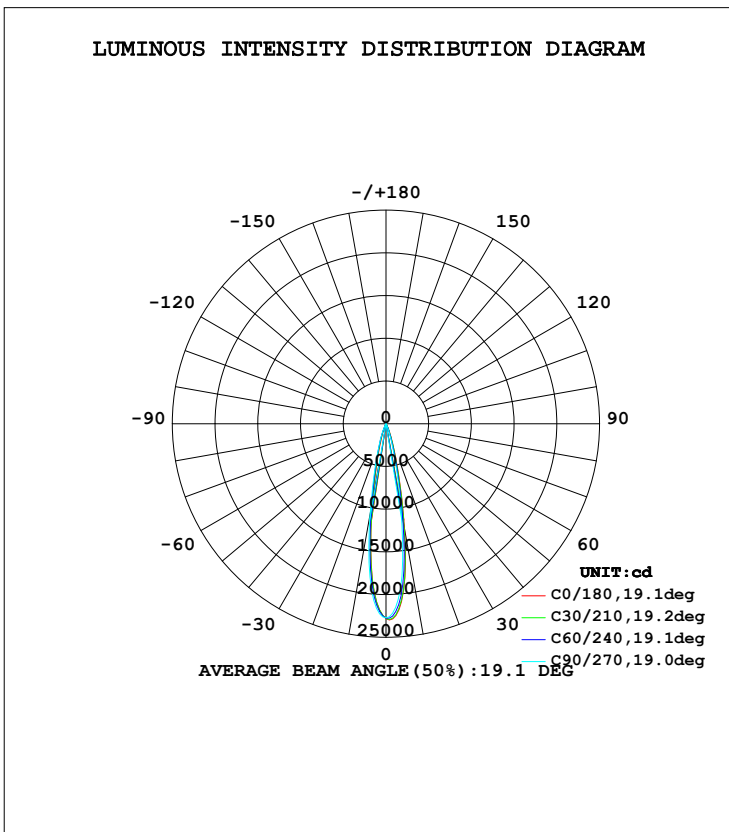
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng Yongjian
Test Date: 2017-05-18

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity: 52%
Test Distance: 5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.7V I:0.1315A P:27.98W PF:0.9638 Lamp Flux:3218.69x1 lm		
NAME: PURE M-28W-840-18	TYPE:Tracklight	SERIAL No.:
SPEC.:4000K	DIM.: φ90mm*H220mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 115.05 lm/W			
MODEL	CITIZEN-4000K	I _{max} (cd)	22965	S/MH (C0/180)	0.30
NOMINAL POWER (W)	28	LOR (%)	100.0	S/MH (C90/270)	0.33
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	3218.7	η UP, DN (C0-180)	0.0, 49.2
NOMINAL FLUX (lm)	3218.69	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 50.8
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



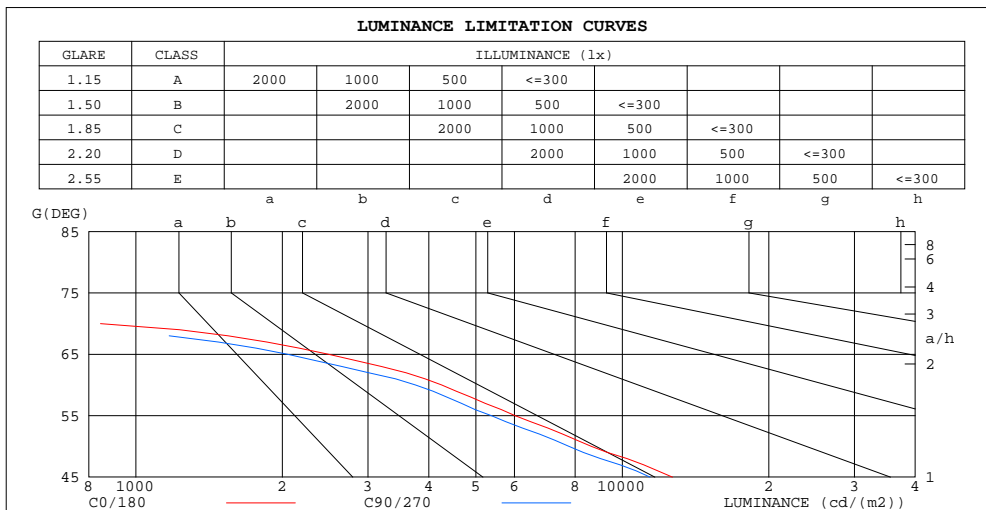
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**ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES**

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	$\%lum, lamp$
10	1258	1208	1018	900.0	894.6	932.2	1075	1195	0- 10	1562	1562	48.5,48.5
20	190.7	175.9	124.3	108.0	111.0	150.3	181.1	201.2	10- 20	1216	2778	86.3,86.3
30	27.71	25.21	20.34	18.61	18.39	20.71	24.28	28.12	20- 30	286.4	3064	95.2,95.2
40	9.052	8.767	7.962	7.734	7.650	8.241	8.968	9.600	30- 40	86.50	3151	97.9,97.9
50	3.531	3.431	3.175	2.978	2.987	3.126	3.546	3.604	40- 50	42.62	3194	99.2,99.2
60	1.352	1.289	1.193	1.105	1.084	1.132	1.296	1.332	50- 60	18.58	3212	99.8,99.8
70	0.1840	0.1625	0.0977	0.0836	0.0651	0.1197	0.1483	0.1943	60- 70	6.039	3218	100,100
80	0.0199	0.0155	0.0171	0.0144	0.0156	0.0179	0.0166	0.0190	70- 80	0.3614	3219	100,100
90	0.0120	0.0118	0.0127	0.0125	0.0136	0.0127	0.0125	0.0125	80- 90	0.1521	3219	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: $\times 10cd$									UNIT: lm		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	265	245
80	180	155
75	181	149
70	846	449
65	2487	2048
60	4252	3753
55	6018	5381
50	8640	7768
45	12680	11402

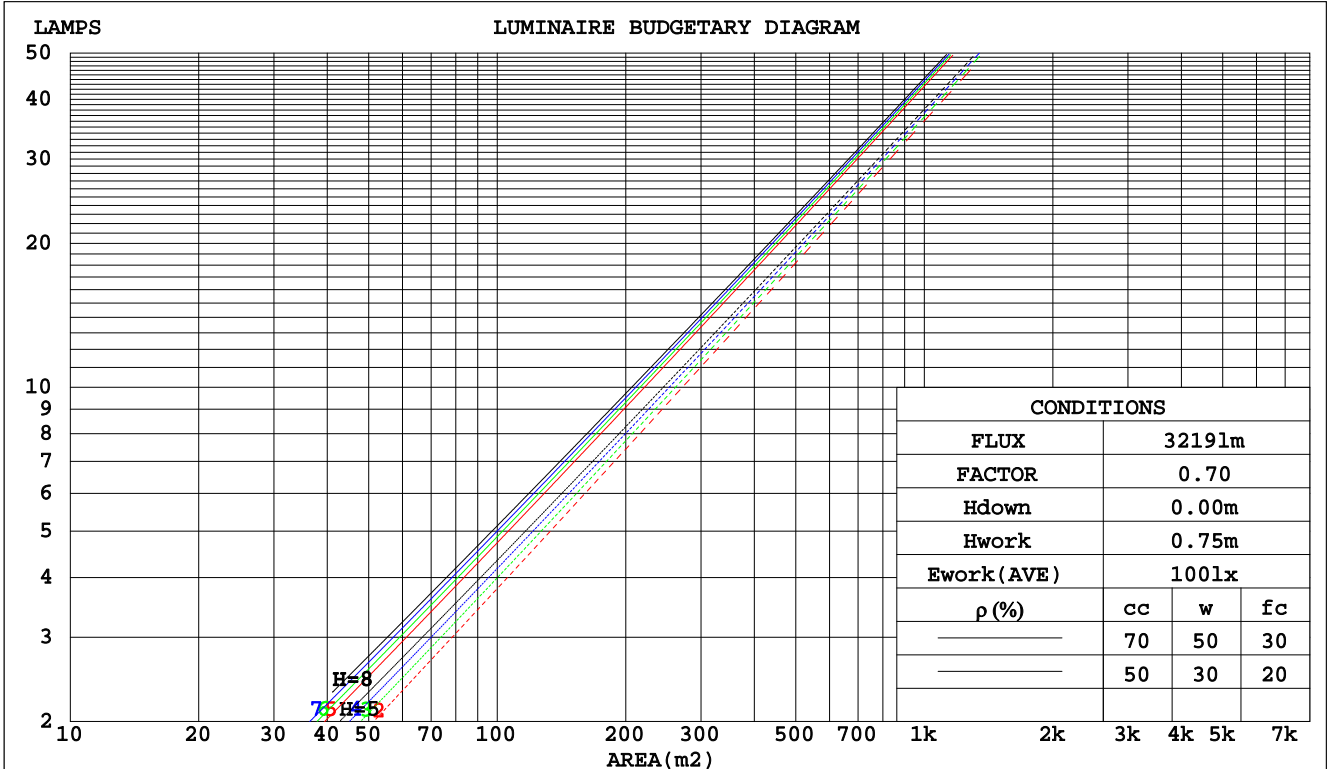
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.:4000K	DIM.: φ90mm*H220mm	
MFR.: NEKO LIGHTING AG		

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	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	1.13	1.12	1.10	1.11	1.10	1.08	1.07	1.06	1.05	1.04	1.03	1.02	1.00	.00	.99	.97
2.0	1.09	1.06	1.03	1.07	1.04	1.02	1.04	1.02	1.00	1.01	.99	.98	.98	.97	.96	.95
3.0	1.05	1.01	.99	1.03	1.00	.98	1.01	.98	.96	.99	.97	.95	.96	.95	.93	.92
4.0	1.01	.97	.95	.90	.97	.94	.98	.95	.93	.96	.94	.92	.95	.93	.91	.90
5.0	.98	.94	.91	.97	.94	.91	.95	.93	.90	.94	.91	.90	.93	.91	.89	.88
6.0	.95	.91	.89	.94	.91	.88	.93	.90	.88	.92	.89	.87	.91	.89	.87	.86
7.0	.93	.89	.86	.92	.89	.86	.91	.88	.86	.90	.87	.85	.89	.87	.85	.84
8.0	.90	.87	.84	.90	.86	.84	.89	.86	.84	.88	.85	.83	.87	.85	.83	.82
9.0	.88	.85	.82	.88	.84	.82	.87	.84	.82	.86	.84	.82	.86	.83	.81	.81
10.0	.86	.83	.80	.86	.83	.80	.85	.82	.80	.85	.82	.80	.84	.82	.80	.79



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WEC AND CCEC

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ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.128	.073	.023	.121	.069	.022	.109	.062	.020	.097	.056	.018	.087	.050	.016	
2.0	.118	.064	.020	.112	.062	.019	.102	.057	.018	.093	.052	.016	.084	.048	.015	
3.0	.109	.058	.017	.104	.056	.017	.096	.052	.016	.088	.048	.015	.081	.045	.014	
4.0	.101	.053	.015	.098	.051	.015	.091	.048	.014	.084	.045	.014	.078	.042	.013	
5.0	.095	.048	.014	.092	.047	.014	.086	.045	.013	.080	.042	.013	.075	.040	.012	
6.0	.089	.045	.013	.087	.044	.013	.081	.042	.012	.077	.040	.012	.072	.038	.011	
7.0	.084	.042	.012	.082	.041	.012	.078	.039	.011	.073	.038	.011	.070	.036	.011	
8.0	.080	.039	.011	.078	.038	.011	.074	.037	.011	.071	.036	.010	.067	.034	.010	
9.0	.076	.037	.010	.074	.036	.010	.071	.035	.010	.068	.034	.010	.065	.033	.010	
10.0	.073	.035	.010	.071	.034	.010	.068	.033	.009	.065	.032	.009	.063	.032	.009	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	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	.168	.158	.149	.143	.135	.128	.098	.093	.089	.056	.054	.051	.018	.017	.017	
2.0	.149	.133	.119	.128	.114	.103	.087	.079	.072	.050	.046	.042	.016	.015	.014	
3.0	.133	.113	.097	.114	.098	.084	.079	.068	.059	.045	.040	.035	.015	.013	.011	
4.0	.120	.098	.080	.103	.084	.070	.071	.059	.049	.041	.034	.029	.013	.011	.010	
5.0	.109	.085	.067	.094	.074	.059	.065	.051	.041	.038	.030	.025	.012	.010	.008	
6.0	.100	.075	.057	.086	.065	.050	.059	.045	.035	.034	.027	.021	.011	.009	.007	
7.0	.092	.067	.049	.079	.058	.043	.055	.041	.030	.032	.024	.018	.010	.008	.006	
8.0	.085	.060	.042	.073	.052	.037	.051	.036	.026	.030	.021	.016	.010	.007	.005	
9.0	.079	.054	.037	.068	.047	.032	.047	.033	.023	.028	.019	.014	.009	.006	.004	
10.0	.074	.049	.032	.064	.043	.028	.044	.030	.020	.026	.018	.012	.008	.006	.004	

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 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
 Humidity:52%
 Test Distance:5.850m [K=1.0000]
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UGR(Unified Glare Rating) Table

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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	10.7	11.2	10.9	11.4	11.5	10.0	10.6	10.2	10.7	10.9
3H	10.6	11.2	10.8	11.3	11.5	9.9	10.5	10.2	10.7	10.9
4H	10.5	11.1	10.8	11.3	11.5	9.9	10.4	10.1	10.6	10.8
6H	10.4	10.9	10.7	11.2	11.4	9.8	10.3	10.1	10.5	10.7
8H	10.4	10.9	10.7	11.1	11.4	9.7	10.2	10.0	10.5	10.7
12H	10.4	10.8	10.7	11.1	11.3	9.7	10.2	10.0	10.4	10.7
4H 2H	10.6	11.1	10.8	11.3	11.5	10.0	10.5	10.2	10.7	10.9
3H	10.5	11.0	10.8	11.2	11.5	9.9	10.3	10.2	10.6	10.9
4H	10.4	10.8	10.7	11.1	11.4	9.8	10.2	10.1	10.5	10.8
6H	10.3	10.7	10.7	11.0	11.4	9.7	10.1	10.0	10.4	10.7
8H	10.3	10.6	10.6	11.0	11.3	9.6	10.0	10.0	10.3	10.7
12H	10.2	10.5	10.6	10.9	11.3	9.6	9.9	10.0	10.3	10.6
8H 4H	10.3	10.6	10.6	11.0	11.3	9.6	10.0	10.0	10.3	10.7
6H	10.1	10.4	10.6	10.8	11.2	9.5	9.8	9.9	10.2	10.6
8H	10.1	10.3	10.5	10.8	11.2	9.4	9.7	9.9	10.1	10.6
12H	10.0	10.2	10.5	10.7	11.2	9.4	9.6	9.8	10.0	10.5
12H 4H	10.2	10.5	10.6	10.9	11.3	9.6	9.9	10.0	10.3	10.6
6H	10.1	10.3	10.5	10.8	11.2	9.4	9.7	9.9	10.1	10.6
8H	10.0	10.2	10.5	10.7	11.1	9.4	9.6	9.8	10.0	10.5
Variations with the observer position at spacings:										
S = 1.0H	+ 2.0 / - 3.9					+ 1.9 / - 4.0				
1.5H	+ 2.9 / - 2.8					+ 2.3 / - 2.6				
2.0H	+ 3.6 / - 4.3					+ 3.6 / - 4.3				

CIE Pub.117 Corrected 3219 lm Total Lamp Luminous Flux.(8log(F/F0) = 4.1)

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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	90	84	81	90	84	81	89	84	81	77
0.80	97	92	89	97	92	88	96	91	88	85
1.00	101	96	93	100	96	93	99	95	92	88
1.25	105	100	97	104	100	97	102	98	96	92
1.50	107	103	100	106	102	99	104	101	98	94
2.00	110	106	103	108	105	102	106	103	101	96
2.50	111	108	105	110	106	104	106	104	102	96
3.00	112	109	107	111	108	106	107	105	104	97
4.00	114	112	110	112	110	108	109	107	106	99
5.00	116	114	112	113	112	110	110	108	107	100
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

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ISOCANDELA DIAGRAM

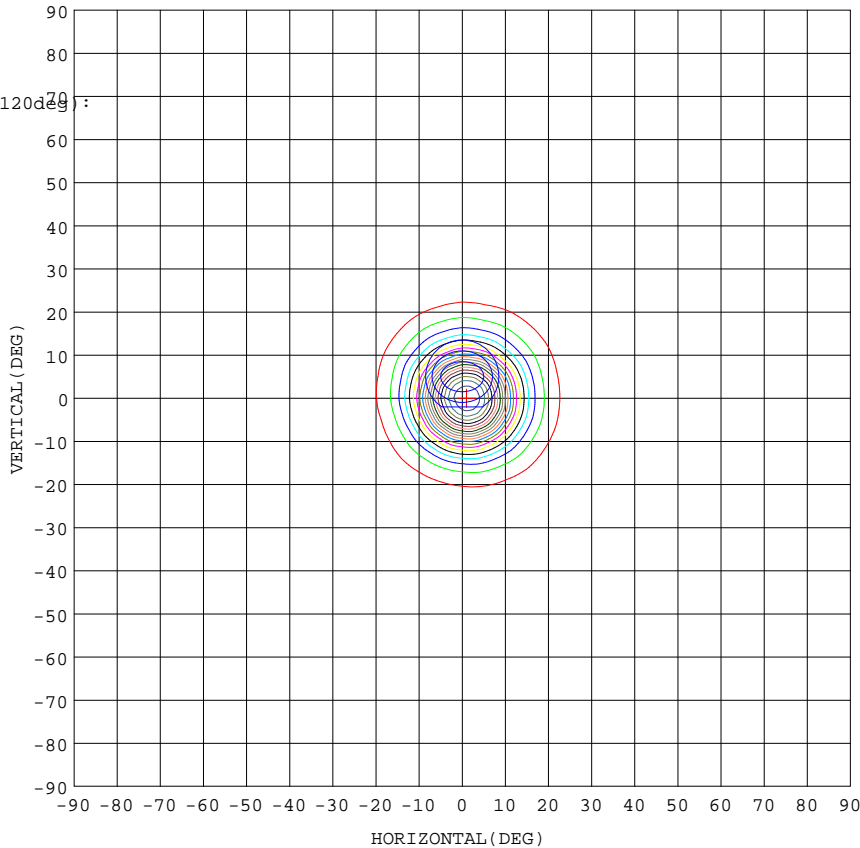
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Conical surface Flux(90deg):

3176.3 lm
%lum = 98.7%
%lamp = 98.7%

Conical surface Flux(120deg):

3212.1 lm
%lum = 99.8%
%lamp = 99.8%



1. AVG=18226,MIN=13002
2. AVG=16901,MIN=8807
3. AVG=15344,MIN=5723

Imax:22965(H1.0,V0.0)
(At:C=0.0,Gamma=1.0)

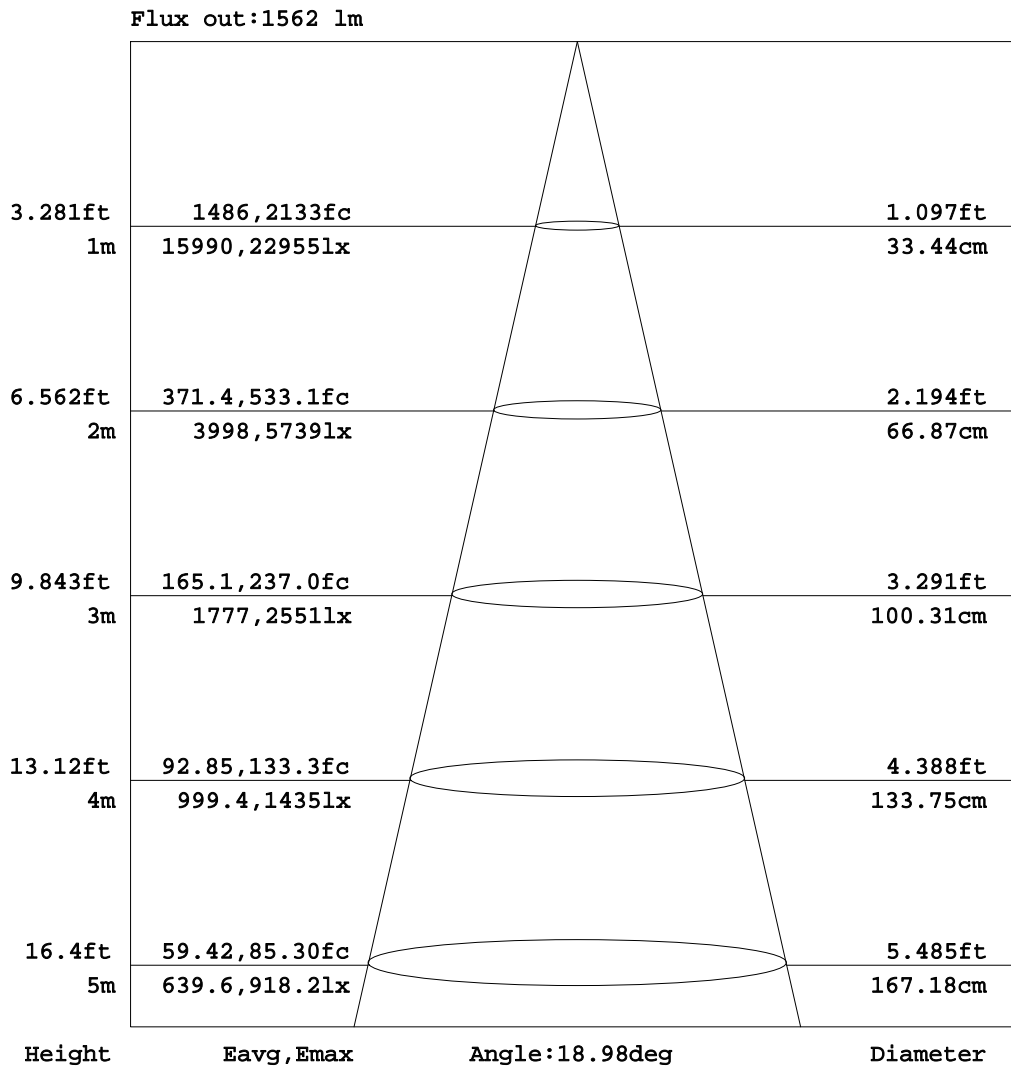
UNIT: cd

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AAI Figure

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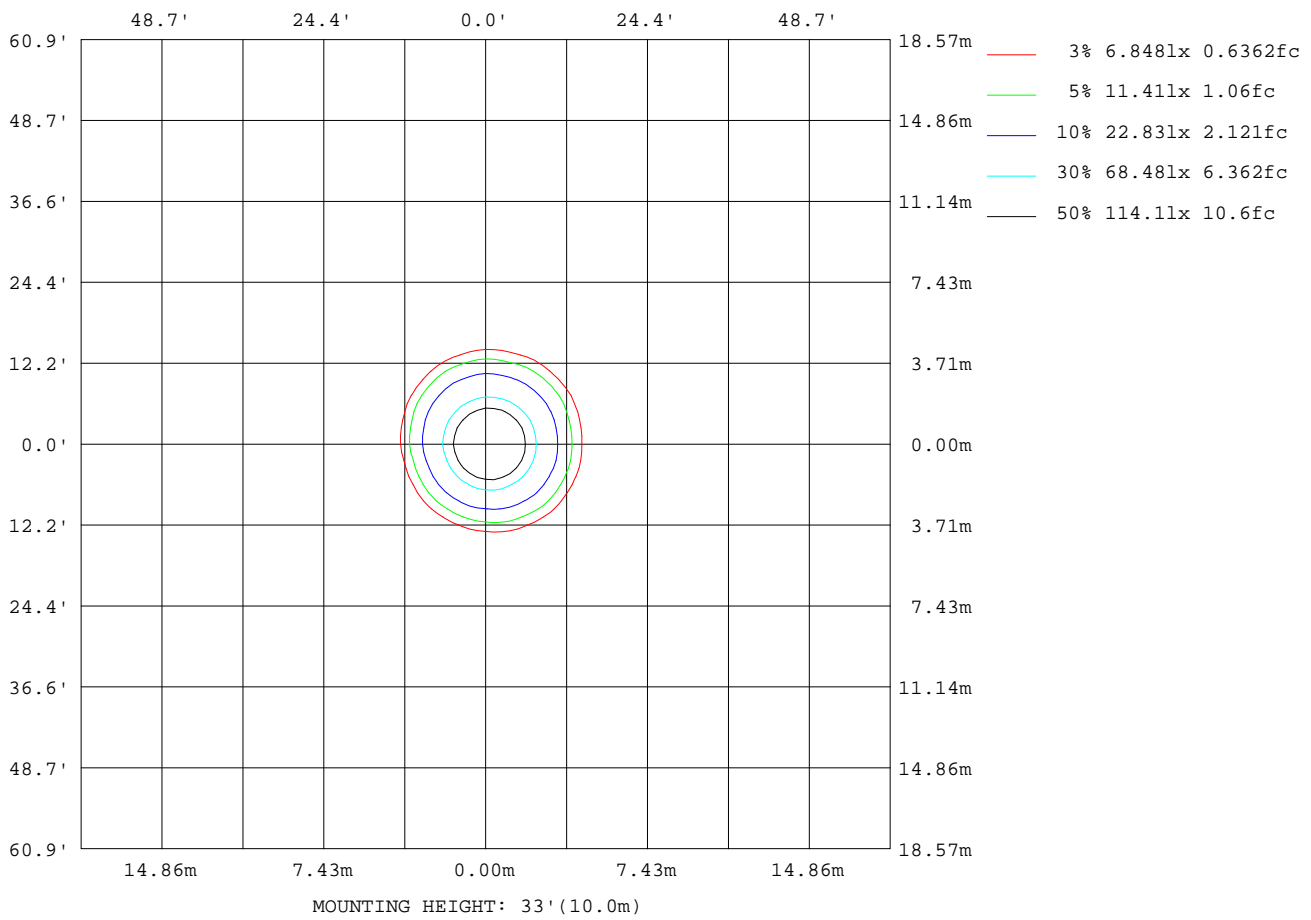
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

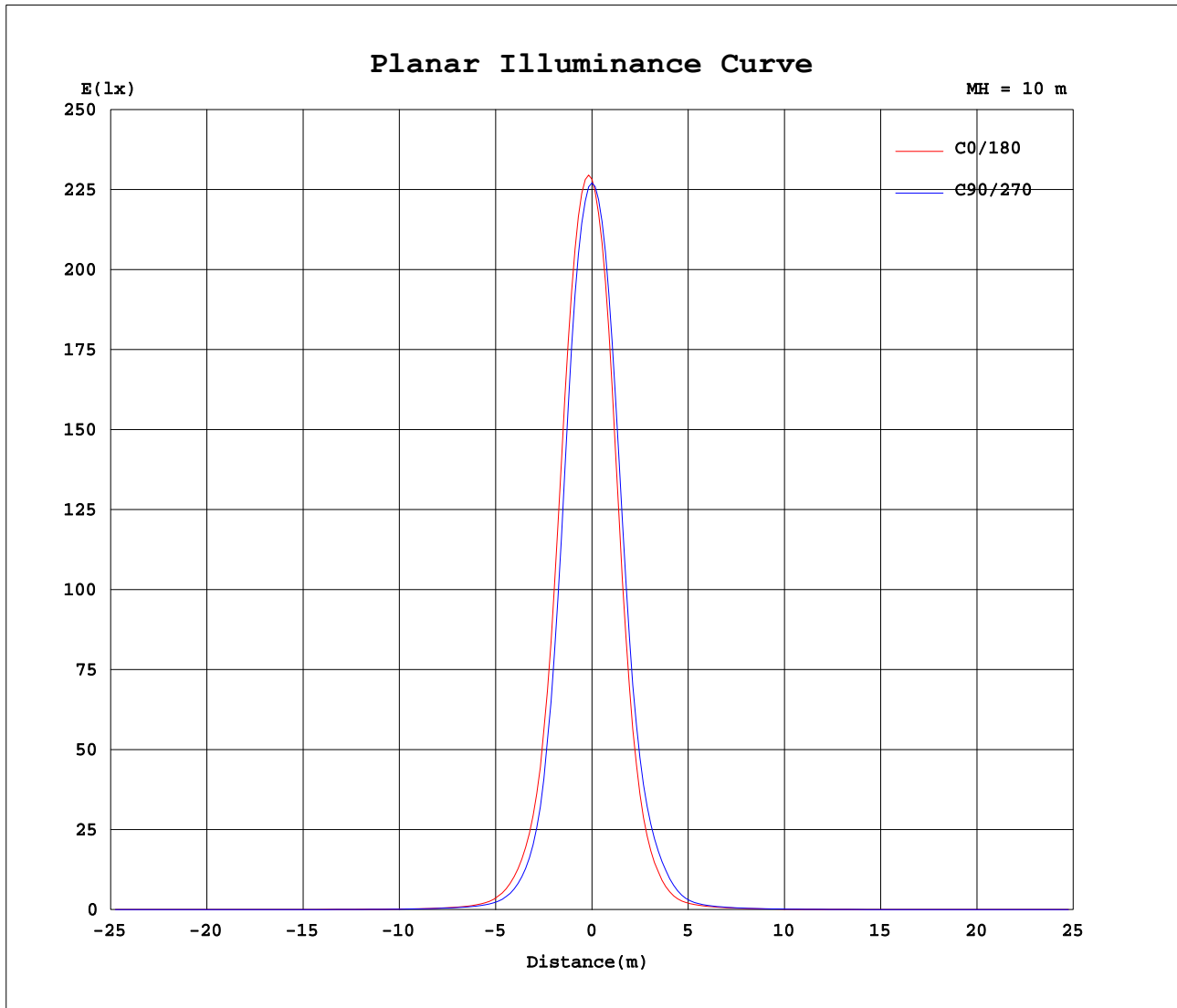
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Planar Illuminance Curve



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Photometric Data Table [cd]

G/C	0.0	15.0	30.0	45.0	60.0	75.0	90.0	105.0	120.0	135.0
0.0	22826	22784	22783	22749	22745	22726	22712	22712	22692	22708
3.0	22478	22503	22379	22271	22013	21845	21538	21368	21079	20966
6.0	19665	19782	19546	19384	18886	18543	17917	17578	17008	16795
9.0	14528	14695	14270	14063	13308	12947	12059	11726	11004	10868
12.0	8942	9076	8677	8472	7854	7568	6944	6644	6236	6017
15.0	4954	5020	4771	4649	4215	3994	3573	3392	3151	3118
18.0	2781	2797	2667	2584	2291	2128	1886	1746	1663	1663
21.0	1572	1596	1494	1466	1249	1144	1006	924.9	871.5	862.9
24.0	857.6	853.2	801.7	765.5	664.7	606.0	544.1	488.9	454.1	443.1
27.0	463.6	459.9	431.3	411.7	367.9	341.3	307.2	290.8	273.9	266.7
30.0	277.1	274.2	261.8	252.1	232.6	220.0	203.4	196.7	188.9	186.1
33.0	184.6	182.9	176.5	171.5	162.5	155.7	146.6	144.6	141.1	139.7
36.0	132.2	132.6	128.4	125.5	120.8	116.1	110.9	110.1	109.0	107.4
39.0	98.93	98.98	97.48	95.74	92.94	89.90	86.22	85.90	84.91	84.19
42.0	75.46	75.70	74.65	73.23	70.98	69.11	66.49	65.76	64.36	64.50
45.0	57.01	57.79	56.94	56.02	54.37	53.57	51.26	50.96	49.84	49.90
48.0	43.51	44.05	43.14	42.40	40.98	40.38	38.36	37.51	36.21	36.09
51.0	32.25	32.53	31.88	31.31	30.60	30.20	29.05	28.17	27.25	27.02
54.0	24.23	24.37	23.54	23.16	22.48	22.19	21.55	20.74	20.07	19.93
57.0	18.09	18.07	17.39	17.12	16.73	16.61	16.17	15.57	15.08	15.07
60.0	13.52	13.54	13.01	12.89	12.49	12.49	11.93	11.50	10.90	11.05
63.0	9.234	9.285	8.783	8.692	8.258	8.248	7.662	7.549	6.911	7.166
66.0	5.603	5.631	5.312	5.308	4.955	4.923	4.567	4.508	4.055	4.276
69.0	2.801	2.854	2.589	2.561	2.229	2.117	1.786	1.698	1.414	1.622
72.0	0.5692	0.5274	0.4764	0.4231	0.3940	0.3383	0.3364	0.3058	0.3161	0.2949
75.0	0.2977	0.2666	0.2802	0.2447	0.2583	0.2251	0.2452	0.2185	0.2386	0.2142
78.0	0.2277	0.2010	0.2123	0.1792	0.1991	0.1704	0.1904	0.1661	0.1882	0.1682
81.0	0.1860	0.1573	0.1728	0.1442	0.1641	0.1355	0.1619	0.1334	0.1575	0.1312
84.0	0.1553	0.1354	0.1466	0.1272	0.1400	0.1290	0.1400	0.1290	0.1356	0.1268
87.0	0.1313	0.1181	0.1290	0.1181	0.1269	0.1224	0.1290	0.1246	0.1268	0.1224
90.0	0.1203	0.1181	0.1203	0.1181	0.1224	0.1224	0.1268	0.1268	0.1246	0.1246
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	22682	22718	22826	22784	22783	22749	22745	22726	22712	22712
3.0	20740	20746	20912	20837	20965	21008	21215	21322	21586	21759
6.0	16352	16337	16587	16485	16774	16868	17294	17509	18029	18326
9.0	10351	10430	10676	10566	10974	11050	11615	11840	12615	12881
12.0	5796	5768	6024	6128	6383	6500	6875	7019	7496	7706
15.0	2946	2980	3201	3301	3629	3771	4051	4096	4347	4395
18.0	1569	1591	1719	1828	2069	2216	2416	2456	2589	2582
21.0	810.4	801.7	884.0	948.3	1099	1206	1370	1390	1512	1491
24.0	416.8	416.2	445.9	471.6	535.7	604.4	665.2	701.4	772.9	789.5
27.0	254.5	254.9	267.4	274.2	297.3	316.1	348.5	363.9	398.3	413.7
30.0	179.6	178.5	183.9	187.0	199.2	207.1	221.8	227.7	242.8	252.7
33.0	135.6	135.4	137.7	139.1	146.7	150.5	158.8	161.9	169.3	175.7
36.0	105.5	104.7	105.5	107.3	112.5	114.5	119.9	122.1	128.0	130.7
39.0	82.84	82.76	82.87	84.53	88.05	89.32	92.77	94.97	97.28	100.5
42.0	63.25	63.57	64.01	65.28	67.63	68.75	71.01	72.84	74.83	76.90
45.0	48.75	49.14	49.39	49.70	51.72	52.36	54.40	55.85	57.36	58.19
48.0	35.29	35.64	36.15	36.11	37.59	38.16	39.93	41.20	43.07	43.62
51.0	26.34	26.65	27.17	27.18	28.05	28.28	29.45	30.36	32.23	31.74
54.0	19.34	19.62	20.12	20.08	20.50	20.63	21.29	21.89	23.16	23.04
57.0	14.52	14.65	15.12	15.06	15.24	15.35	15.80	16.31	17.06	17.20
60.0	10.41	10.50	10.84	10.89	11.12	11.32	11.71	12.24	12.96	13.05
63.0	6.523	6.552	6.733	6.834	7.125	7.428	7.749	8.356	8.902	8.910
66.0	3.736	3.756	3.797	3.886	4.149	4.461	4.593	4.943	5.335	5.449
69.0	1.125	1.141	1.157	1.207	1.485	1.850	1.879	2.140	2.457	2.513
72.0	0.3178	0.3058	0.2926	0.3199	0.3101	0.3403	0.3664	0.3722	0.4681	0.4615
75.0	0.2386	0.2229	0.2141	0.2451	0.2271	0.2582	0.2381	0.2648	0.2490	0.2757
78.0	0.1882	0.1705	0.1639	0.1969	0.1748	0.1991	0.1813	0.2100	0.1901	0.2144
81.0	0.1575	0.1399	0.1535	0.1641	0.1399	0.1684	0.1464	0.1706	0.1508	0.1750
84.0	0.1378	0.1268	0.1445	0.1535	0.1333	0.1487	0.1346	0.1553	0.1403	0.1574
87.0	0.1268	0.1246	0.1356	0.1443	0.1268	0.1378	0.1203	0.1422	0.1268	0.1400
90.0	0.1246	0.1246	0.1356	0.1334	0.1268	0.1268	0.1203	0.1246	0.1246	0.1246
G/C	300.0	315.0	330.0	345.0						
0.0	22692	22708	22682	22718						
3.0	22008	22133	22316	22404						
6.0	18837	19097	19515	19632						
9.0	13617	13902	14482	14590						
12.0	8235	8453	8942	8991						
15.0	4700	4773	5032	4982						
18.0	2773	2825	2922	2819						
21.0	1639	1682	1718	1603						

C Range: 0 - 360DEG

C Interval: 15.0DEG

Test Speed: HIGH

Temperature: 25.3DEG

Operators: Meng Yongjian

Test Date: 2017-05-18

γ Range: 0 - 90DEG

γ Interval: 1.0DEG

Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288

Humidity: 52%

Test Distance: 5.850m [K=1.0000]

Remarks:

Photometric Data Table [cd]

24.0	884.9	912.3	945.9	883.4
27.0	458.3	476.2	497.0	476.4
30.0	272.5	281.2	290.7	282.6
33.0	187.9	190.5	194.4	189.6
36.0	138.9	138.9	140.9	136.4
39.0	105.0	104.9	105.3	102.7
42.0	80.25	79.64	79.78	78.13
45.0	60.25	59.38	59.59	58.47
48.0	45.14	44.67	45.11	44.59
51.0	32.77	32.63	33.16	32.95
54.0	23.94	23.96	24.61	24.55
57.0	17.56	17.67	18.13	18.17
60.0	13.24	13.32	13.59	13.59
63.0	9.123	9.214	9.415	9.370
66.0	5.620	5.711	5.799	5.700
69.0	2.840	2.941	3.000	2.919
72.0	0.5572	0.5847	0.6094	0.5818
75.0	0.2578	0.2867	0.2665	0.2910
78.0	0.1923	0.2188	0.2010	0.2254
81.0	0.1530	0.1794	0.1595	0.1838
84.0	0.1398	0.1574	0.1377	0.1640
87.0	0.1224	0.1443	0.1268	0.1487
90.0	0.1224	0.1246	0.1224	0.1312

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Meng Yongjian
 Test Date: 2017-05-18

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
 Humidity: 52%
 Test Distance: 5.850m [K=1.0000]
 Remarks: