

LED Tracklight PURE M-28W-830-18



Light Output Ratio:	100.0%	
Luminaire Power:	28.05 W	
SHR Nominal:	0.00	Calculated using the TM5
SHR Maximum:	1.00	fine grid method.

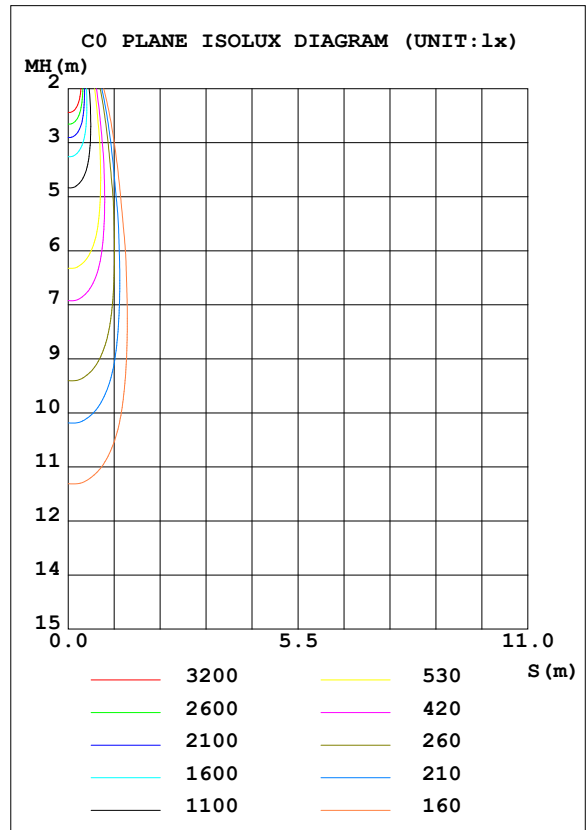
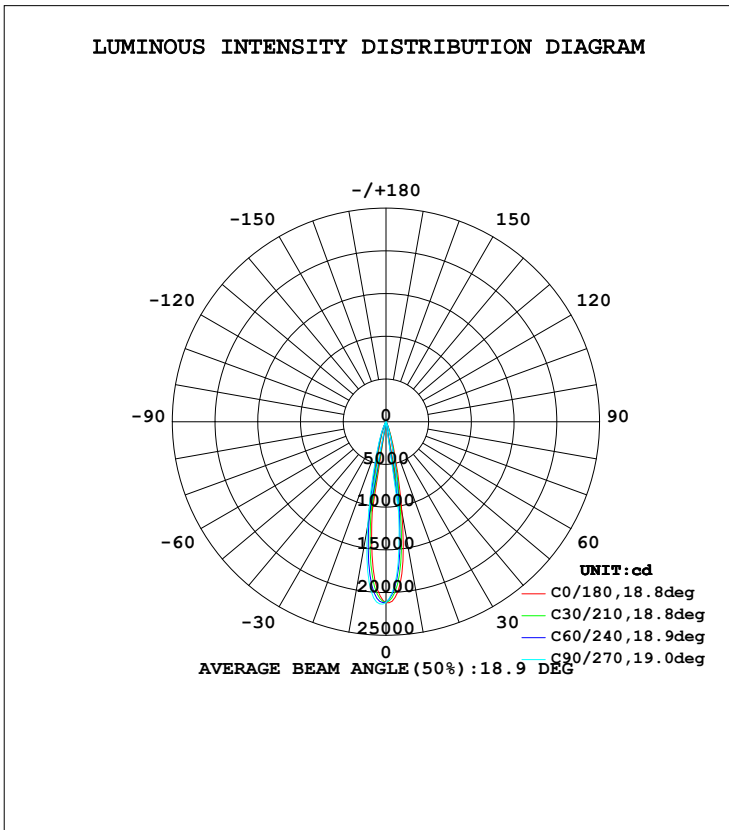
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng Yongjian
Test Date: 2017-05-18

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:0.1319A P:28.05W PF:0.9639 Lamp Flux:3005.44x1 lm		
NAME: PURE M-28W-830-18	TYPE:Tracklight	SERIAL No.:
SPEC.:3000K	DIM.: φ90mm*H220mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 107.13 lm/W			
MODEL	CITIZEN-3000K	I _{max} (cd)	21436	S/MH (C0/180)	0.30
NOMINAL POWER (W)	28	LOR (%)	100.0	S/MH (C90/270)	0.36
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	3005.4	η UP, DN (C0-180)	0.0, 42.8
NOMINAL FLUX (lm)	3005.44	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 57.2
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



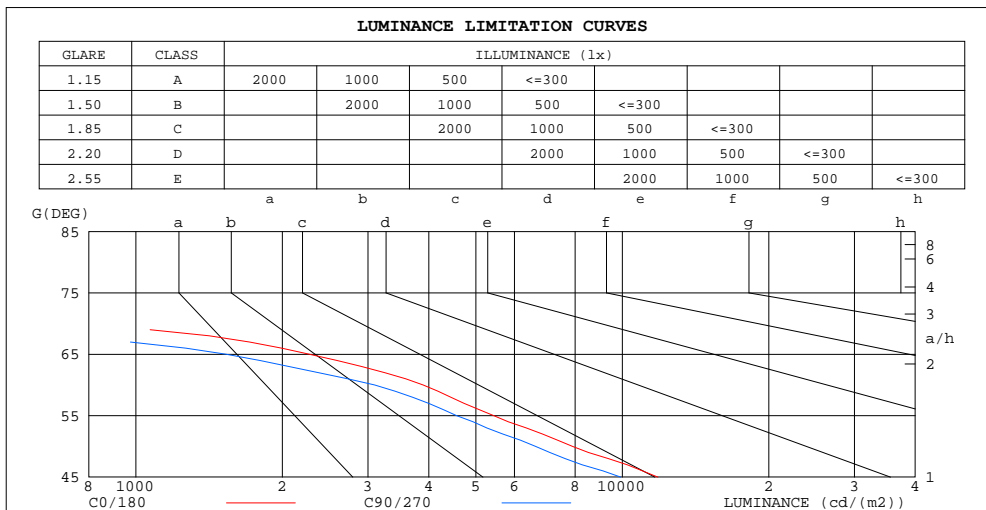
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**ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES**

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	$\%lum, lamp$
10	1072	868.5	737.3	744.7	851.2	1041	1249	1257	0- 10	1455	1455	48.4,48.4
20	152.7	106.5	91.84	100.2	120.9	172.0	210.8	218.5	10- 20	1120	2575	85.7,85.7
30	23.71	18.68	16.63	17.24	19.64	25.19	30.25	30.84	20- 30	282.1	2857	95.1,95.1
40	8.599	7.692	7.026	7.081	7.664	8.636	9.214	9.522	30- 40	84.96	2942	97.9,97.9
50	3.228	2.964	2.710	2.685	2.895	3.115	3.417	3.500	40- 50	39.94	2982	99.2,99.2
60	1.238	1.105	0.9837	0.9615	1.072	1.160	1.298	1.307	50- 60	17.40	2999	99.8,99.8
70	0.1440	0.0734	0.0480	0.0484	0.0612	0.1104	0.1871	0.1940	60- 70	5.576	3005	100,100
80	0.0166	0.0138	0.0168	0.0149	0.0138	0.0168	0.0146	0.0158	70- 80	0.3319	3005	100,100
90	0.0114	0.0116	0.0122	0.0125	0.0114	0.0107	0.0109	0.0116	80- 90	0.1388	3005	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		



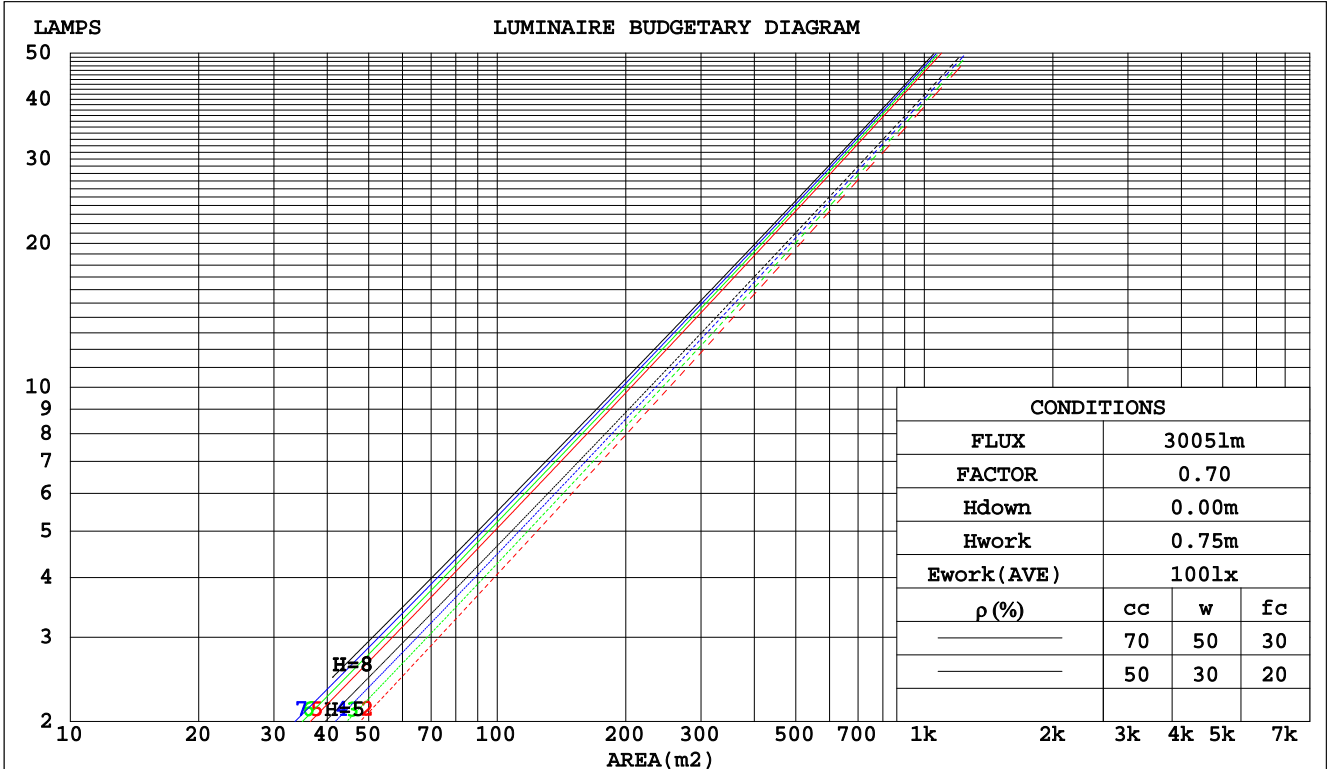
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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MFR.: NEKO LIGHTING AG		

pcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρw	20%			20%			20%			20%			20%			0
ρfc	RCR:Room Cavity Ratio															
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	1.13	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	1.04	1.01	.98	1.03	1.00	.98	1.01	.98	.96	.98	.96	.95	.96	.95	.93	.92
4.0	1.01	.97	.95	.00	.97	.94	.98	.95	.93	.96	.94	.92	.94	.93	.91	.90
5.0	.98	.94	.91	.97	.93	.91	.95	.92	.90	.94	.91	.89	.93	.90	.89	.88
6.0	.95	.91	.88	.94	.91	.88	.93	.90	.88	.92	.89	.87	.91	.88	.87	.86
7.0	.92	.89	.86	.92	.88	.86	.91	.88	.85	.90	.87	.85	.89	.87	.85	.84
8.0	.90	.86	.84	.90	.86	.84	.89	.86	.83	.88	.85	.83	.87	.85	.83	.82
9.0	.88	.84	.82	.88	.84	.82	.87	.84	.82	.86	.83	.81	.86	.83	.81	.80
10.0	.86	.83	.80	.86	.82	.80	.85	.82	.80	.85	.82	.80	.84	.81	.80	.79



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WEC AND CCEC

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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						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.128	.073	.023	.121	.069	.022	.109	.063	.020	.098	.056	.018	.087	.051	.016	
2.0	.118	.065	.020	.113	.062	.019	.102	.057	.018	.093	.052	.016	.084	.048	.015	
3.0	.109	.058	.017	.105	.056	.017	.096	.052	.016	.089	.049	.015	.081	.045	.014	
4.0	.102	.053	.016	.098	.051	.015	.091	.048	.014	.084	.045	.014	.078	.043	.013	
5.0	.095	.049	.014	.092	.047	.014	.086	.045	.013	.081	.043	.013	.075	.040	.012	
6.0	.090	.045	.013	.087	.044	.013	.082	.042	.012	.077	.040	.012	.073	.038	.011	
7.0	.085	.042	.012	.082	.041	.012	.078	.039	.011	.074	.038	.011	.070	.036	.011	
8.0	.080	.039	.011	.078	.039	.011	.074	.037	.011	.071	.036	.010	.067	.035	.010	
9.0	.076	.037	.010	.075	.036	.010	.071	.035	.010	.068	.034	.010	.065	.033	.010	
10.0	.073	.035	.010	.071	.035	.010	.068	.034	.009	.066	.033	.009	.063	.032	.009	

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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						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	.144	.135	.128	.098	.093	.089	.057	.054	.051	.018	.017	.017	
2.0	.149	.133	.119	.128	.114	.103	.087	.079	.072	.050	.046	.042	.016	.015	.014	
3.0	.134	.113	.097	.114	.098	.084	.079	.068	.059	.045	.040	.035	.015	.013	.011	
4.0	.121	.098	.080	.103	.084	.070	.071	.059	.049	.041	.034	.029	.013	.011	.010	
5.0	.110	.085	.067	.094	.074	.059	.065	.052	.041	.038	.030	.025	.012	.010	.008	
6.0	.100	.075	.057	.086	.065	.050	.059	.046	.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	.086	.060	.042	.074	.052	.037	.051	.036	.026	.030	.021	.016	.010	.007	.005	
9.0	.080	.054	.037	.069	.047	.032	.048	.033	.023	.028	.019	.014	.009	.006	.004	
10.0	.075	.049	.032	.064	.043	.028	.045	.030	.020	.026	.018	.012	.008	.006	.004	

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 Humidity:52%
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 Remarks:

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	10.0	10.6	10.2	10.8	10.9	9.0	9.6	9.2	9.8	9.9
3H	10.0	10.5	10.2	10.7	10.9	8.9	9.5	9.2	9.7	9.9
4H	9.9	10.4	10.2	10.6	10.8	8.9	9.4	9.1	9.6	9.8
6H	9.8	10.3	10.1	10.5	10.8	8.8	9.3	9.1	9.5	9.7
8H	9.8	10.3	10.1	10.5	10.7	8.7	9.2	9.0	9.5	9.7
12H	9.7	10.2	10.0	10.5	10.7	8.7	9.2	9.0	9.4	9.7
4H 2H	10.0	10.5	10.2	10.7	10.9	9.0	9.5	9.3	9.7	9.9
3H	9.9	10.3	10.2	10.6	10.9	8.9	9.3	9.2	9.6	9.9
4H	9.8	10.2	10.1	10.5	10.8	8.8	9.2	9.1	9.5	9.8
6H	9.7	10.1	10.0	10.4	10.7	8.7	9.1	9.0	9.4	9.7
8H	9.6	10.0	10.0	10.3	10.7	8.6	9.0	9.0	9.3	9.7
12H	9.6	9.9	10.0	10.3	10.6	8.6	8.9	9.0	9.3	9.6
8H 4H	9.6	10.0	10.0	10.3	10.7	8.6	9.0	9.0	9.3	9.7
6H	9.5	9.8	9.9	10.2	10.6	8.5	8.8	8.9	9.2	9.6
8H	9.4	9.7	9.9	10.1	10.6	8.5	8.7	8.9	9.1	9.6
12H	9.4	9.6	9.8	10.0	10.5	8.4	8.6	8.9	9.1	9.5
12H 4H	9.6	9.9	10.0	10.3	10.6	8.6	8.9	9.0	9.3	9.6
6H	9.4	9.7	9.9	10.1	10.6	8.4	8.7	8.9	9.1	9.6
8H	9.4	9.6	9.8	10.0	10.5	8.4	8.6	8.9	9.1	9.5
Variations with the observer position at spacings:										
S = 1.0H	+ 2.2 / - 4.0					+ 1.9 / - 4.1				
1.5H	+ 3.2 / - 3.1					+ 2.5 / - 2.6				
2.0H	+ 3.9 / - 4.5					+ 3.6 / - 4.7				

CIE Pub.117 Corrected 3005 lm Total Lamp Luminous Flux.(8log(F/F0) = 3.8)

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UTILIZATION FACTORS TABLE

Test:U:220.7V I:0.1319A P:28.05W PF:0.9639 Lamp Flux:3005.44x1 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	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	92	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

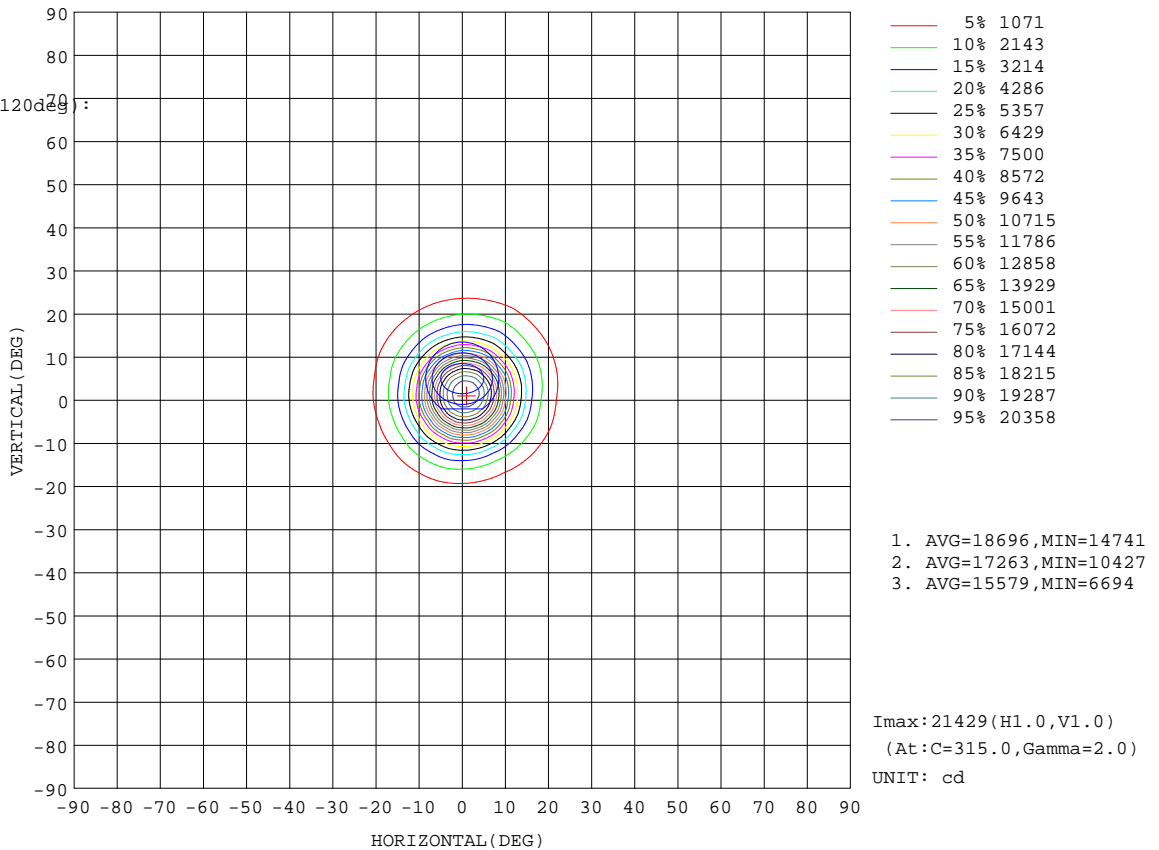
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Conical surface Flux(90deg):

2965.9 lm
%lum = 98.7%
%lamp = 98.7%

Conical surface Flux(120deg):

2999.4 lm
%lum = 99.8%
%lamp = 99.8%



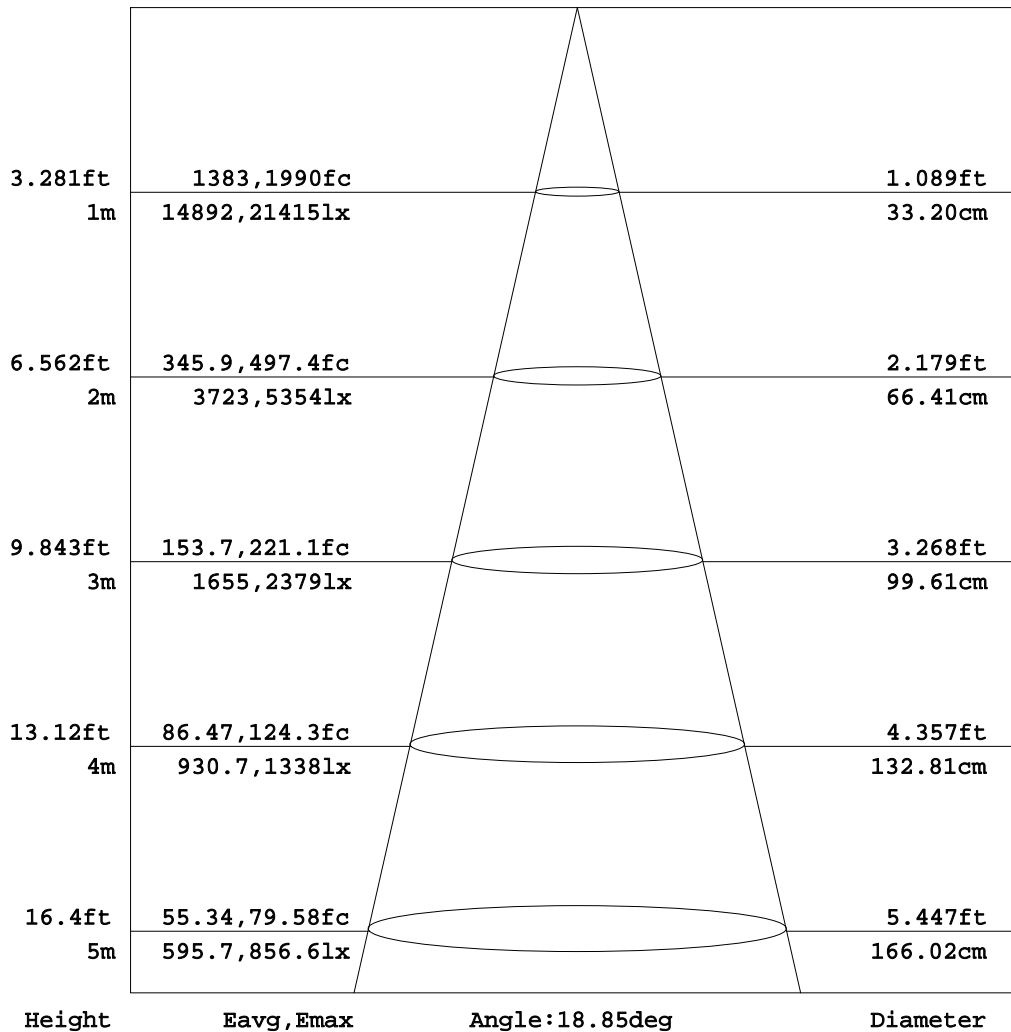
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AAI Figure

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Flux out:1455 lm



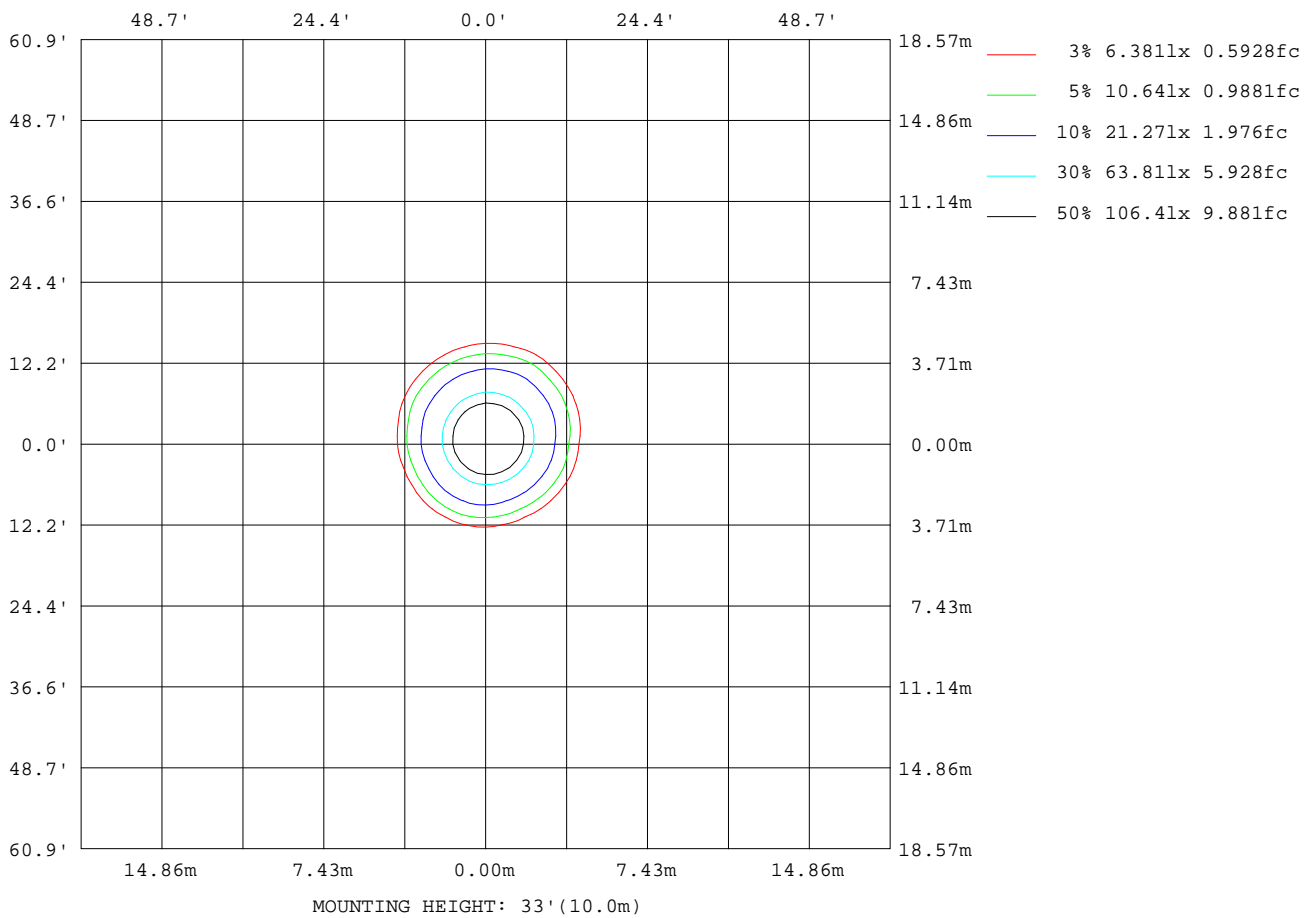
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

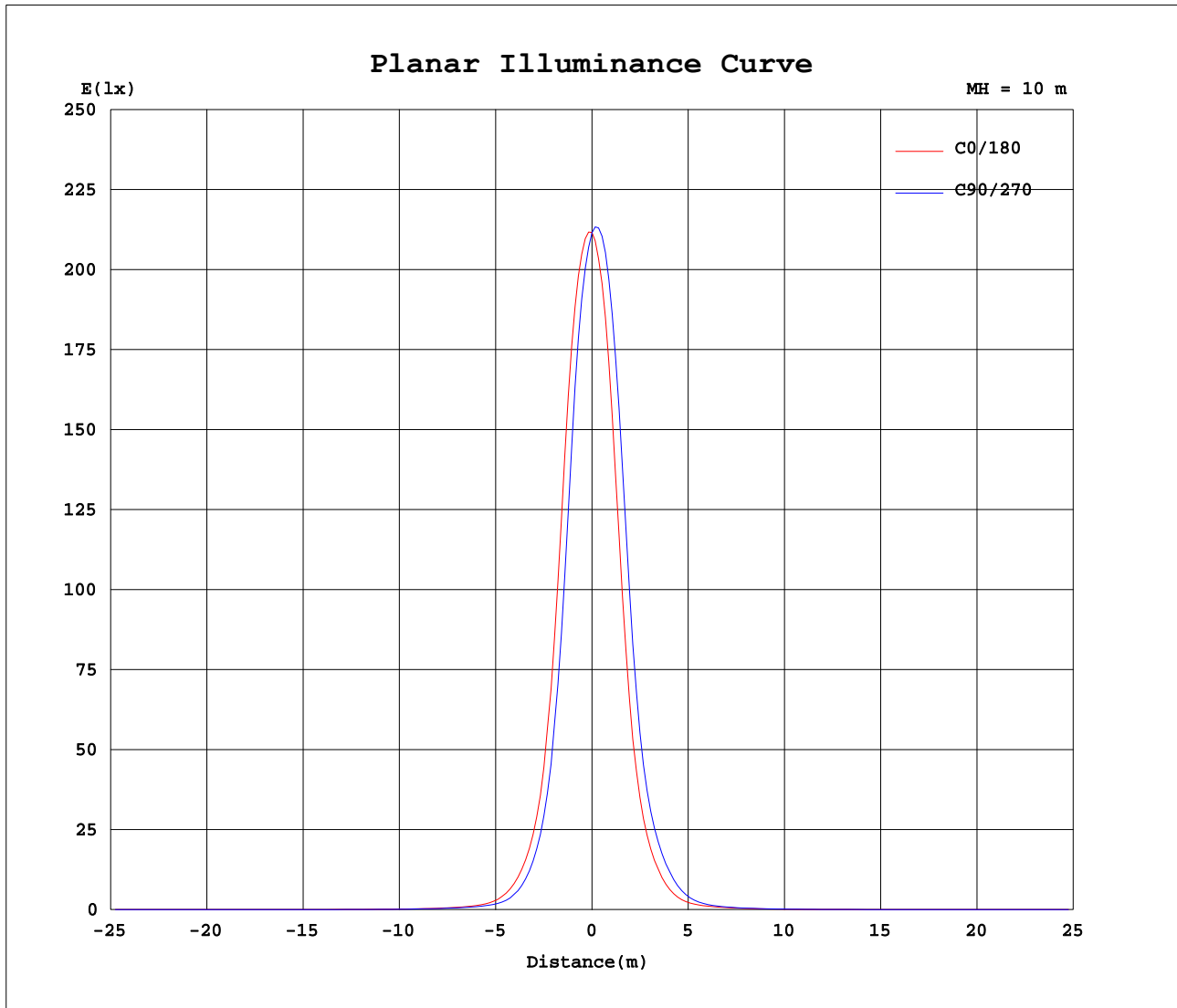
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Planar Illuminance Curve



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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	21164	21142	21131	21128	21111	21129	21151	21183	21171	21211
3.0	20573	20323	19997	19770	19440	19303	19168	19174	19096	19226
6.0	17897	17386	16638	16139	15411	15064	14680	14652	14444	14706
9.0	12663	12085	11006	10487	9619	9353	8959	9003	8753	9070
12.0	7361	6915	6265	5744	5294	5017	4858	4936	4832	5003
15.0	3966	3701	3257	2978	2654	2615	2612	2696	2671	2774
18.0	2232	2085	1823	1636	1406	1422	1414	1503	1479	1562
21.0	1252	1166	998.2	863.8	745.7	725.0	735.0	763.4	762.1	800.5
24.0	677.0	614.3	521.5	456.9	401.3	387.0	387.4	393.8	392.3	412.5
27.0	375.1	341.1	298.2	271.4	247.8	239.7	238.5	241.1	240.2	248.2
30.0	237.1	221.3	200.4	186.8	172.5	166.5	166.3	168.8	167.8	172.4
33.0	166.7	158.9	146.9	139.2	130.0	124.7	125.4	128.0	126.3	129.9
36.0	123.7	119.6	112.1	107.5	101.5	97.29	97.76	98.84	97.78	99.73
39.0	94.19	92.14	86.68	83.86	80.05	76.41	76.74	77.27	76.19	77.85
42.0	70.84	69.05	65.89	64.07	61.27	58.81	58.12	58.33	57.28	58.36
45.0	53.20	52.49	50.18	49.11	47.16	45.38	44.61	44.64	43.78	44.69
48.0	39.81	38.99	36.76	35.93	34.39	33.28	32.44	32.43	31.79	32.39
51.0	29.44	28.85	27.57	26.98	26.03	25.35	24.69	24.51	23.94	24.34
54.0	21.78	21.31	20.34	19.91	19.30	18.98	18.43	18.17	17.76	18.01
57.0	16.37	16.03	15.41	15.04	14.61	14.37	13.84	13.65	13.38	13.49
60.0	12.38	11.98	11.53	11.05	10.57	10.26	9.837	9.715	9.544	9.615
63.0	8.407	7.921	7.602	7.062	6.572	6.269	5.961	5.970	5.947	5.938
66.0	5.155	4.760	4.626	4.117	3.734	3.472	3.274	3.312	3.318	3.275
69.0	2.437	2.113	1.938	1.467	1.146	0.9214	0.7814	0.7626	1.027	0.7780
72.0	0.4117	0.3664	0.3339	0.3014	0.3159	0.2928	0.3153	0.2906	0.3153	0.2928
75.0	0.2474	0.2207	0.2386	0.2141	0.2364	0.2163	0.2386	0.2185	0.2430	0.2207
78.0	0.1904	0.1682	0.1860	0.1660	0.1860	0.1682	0.1904	0.1683	0.1969	0.1748
81.0	0.1554	0.1355	0.1531	0.1311	0.1553	0.1355	0.1575	0.1333	0.1597	0.1399
84.0	0.1334	0.1202	0.1291	0.1235	0.1313	0.1279	0.1335	0.1242	0.1378	0.1277
87.0	0.1224	0.1137	0.1203	0.1159	0.1203	0.1203	0.1225	0.1203	0.1247	0.1224
90.0	0.1137	0.1137	0.1159	0.1159	0.1203	0.1203	0.1224	0.1224	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	21204	21233	21164	21142	21131	21128	21111	21129	21151	21183
3.0	19246	19487	19643	19829	20145	20385	20697	20902	21129	21239
6.0	14769	15286	15722	16147	16885	17383	18050	18457	18939	19089
9.0	9067	9656	10197	10657	11604	12221	13187	13700	14363	14535
12.0	4975	5297	5694	6137	6735	7209	7951	8340	8875	8982
15.0	2746	2895	3160	3345	3783	4043	4486	4693	5022	5119
18.0	1521	1615	1797	1925	2234	2412	2642	2780	2968	3084
21.0	795.8	857.1	983.5	1082	1310	1438	1574	1655	1766	1863
24.0	416.4	447.0	516.6	589.6	694.8	777.6	861.6	934.2	987.3	1042
27.0	249.5	264.0	296.0	322.5	374.2	413.6	467.7	506.2	528.2	566.5
30.0	172.5	178.5	196.4	211.0	234.3	251.9	276.3	292.5	302.5	313.1
33.0	128.9	132.5	142.8	151.9	164.8	173.3	185.6	191.8	195.9	201.3
36.0	99.60	101.0	108.2	114.6	121.7	126.8	134.4	135.5	139.0	141.0
39.0	78.07	78.94	83.91	88.33	92.31	95.15	99.12	99.58	101.4	104.0
42.0	58.76	59.23	62.52	66.11	67.75	69.83	72.30	72.71	75.09	76.90
45.0	45.12	45.82	48.06	49.51	50.62	51.08	53.31	53.64	55.88	57.13
48.0	32.92	33.97	35.08	36.10	37.17	37.73	39.65	40.09	42.13	42.87
51.0	24.69	25.85	26.24	26.87	27.77	28.35	29.68	29.99	31.17	31.51
54.0	18.25	19.02	19.34	19.62	20.35	20.81	21.80	22.25	23.28	23.33
57.0	13.71	14.32	14.65	14.59	15.17	15.52	16.19	16.59	17.17	17.19
60.0	9.841	10.48	10.72	10.73	11.31	11.60	12.15	12.48	12.98	12.97
63.0	6.142	6.586	6.876	6.885	7.466	7.695	8.186	8.479	8.922	8.903
66.0	3.375	3.679	3.931	3.978	4.425	4.617	4.949	5.120	5.456	5.433
69.0	0.8100	1.030	1.239	1.319	1.765	1.949	2.327	2.453	2.795	2.781
72.0	0.3197	0.3015	0.2860	0.3226	0.3316	0.3651	0.4464	0.4905	0.5204	0.5035
75.0	0.2430	0.2272	0.2075	0.2342	0.2163	0.2473	0.2294	0.2539	0.2359	0.2561
78.0	0.1991	0.1792	0.1617	0.1860	0.1660	0.1904	0.1683	0.1947	0.1704	0.1926
81.0	0.1641	0.1442	0.1312	0.1553	0.1333	0.1553	0.1333	0.1575	0.1377	0.1553
84.0	0.1400	0.1246	0.1219	0.1356	0.1201	0.1335	0.1114	0.1334	0.1136	0.1312
87.0	0.1247	0.1224	0.1115	0.1203	0.1071	0.1181	0.1050	0.1203	0.1093	0.1203
90.0	0.1224	0.1224	0.1137	0.1115	0.1071	0.1071	0.1050	0.1093	0.1093	0.1115
G/C	300.0	315.0	330.0	345.0						
0.0	21171	21211	21204	21233						
3.0	21284	21242	21164	20972						
6.0	19271	19105	18971	18535						
9.0	14867	14539	14360	13609						
12.0	9254	8898	8742	8091						
15.0	5318	5036	4904	4452						
18.0	3225	3028	2901	2600						
21.0	1977	1835	1729	1522						

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	1116	1024	956.4	834.4
27.0	583.8	553.2	511.2	447.8
30.0	326.8	308.4	294.9	267.5
33.0	207.4	200.7	194.9	180.6
36.0	145.2	141.4	139.7	130.2
39.0	106.1	104.8	102.6	97.53
42.0	78.53	78.04	76.71	73.02
45.0	58.15	57.61	57.08	54.44
48.0	43.73	43.45	43.39	41.35
51.0	32.05	31.82	31.87	30.66
54.0	23.81	23.57	23.70	22.98
57.0	17.50	17.29	17.49	17.24
60.0	13.30	13.07	13.25	13.14
63.0	9.284	9.015	9.249	8.948
66.0	5.764	5.549	5.701	5.481
69.0	3.068	2.869	2.987	2.747
72.0	0.5443	0.4648	0.5073	0.4480
75.0	0.2315	0.2451	0.2206	0.2364
78.0	0.1660	0.1838	0.1616	0.1838
81.0	0.1332	0.1509	0.1311	0.1509
84.0	0.1180	0.1269	0.1224	0.1356
87.0	0.1115	0.1181	0.1137	0.1268
90.0	0.1115	0.1159	0.1137	0.1224

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: