
LED Downlight FUSION Series LE-FS6-13W-840-30D



Light Output Ratio:	100.0%	
Luminaire Power:	15.31 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.50	fine grid method.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng Yongjian
Test Date: 2017-06-14

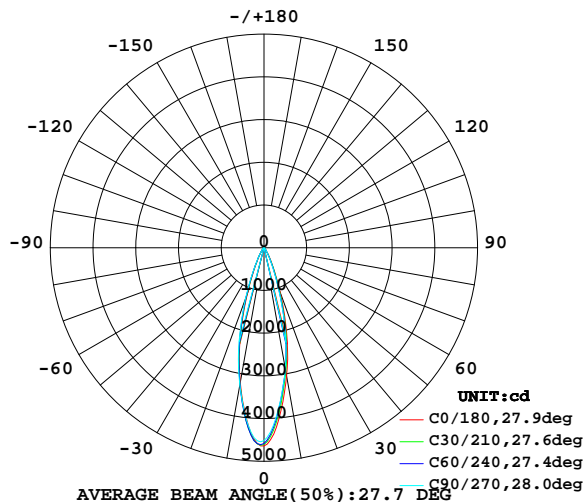
γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity: 52%
Test Distance: 5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

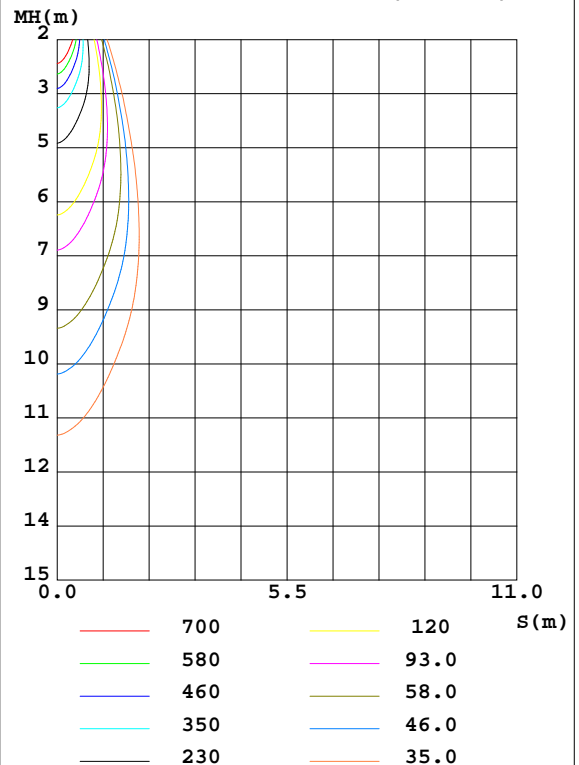
Test:U:220.7V I:0.0749A P:15.31W PF:0.9262 Lamp Flux:1319.12x1 lm		
NAME: FS6-13W-840-30D	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: L290mm*W45mm*H60mm	
MFR.:		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 86.16 lm/W			
MODEL	CREE-4000K	I _{max} (cd)	4639	S/MH(C0/180)	0.48
NOMINAL POWER(W)	15.0	LOR(%)	100.0	S/MH(C90/270)	0.50
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	1319.1	η UP,DN(C0-180)	0.0,47.4
NOMINAL FLUX(lm)	1319.12	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,52.6
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	220	η down(%)	100.0	CIBSE SHR MAX	0.50

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



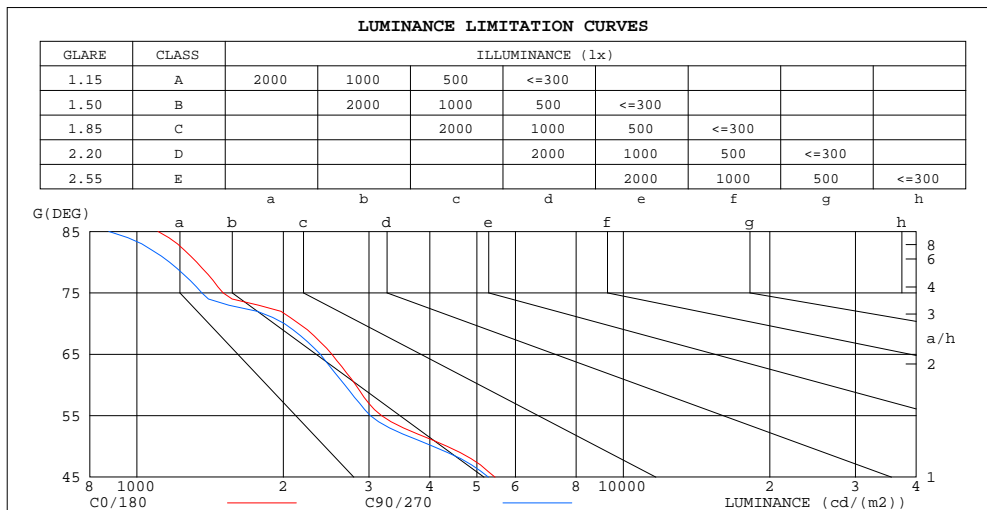
C Range: 0 - 360DEG
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Test Speed: HIGH
Temperature:25.3DEG
Operators:Meng Yongjian
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γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity:52%
Test Distance:5.850m [K=1.0000]
Remarks:

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	3056	2919	2881	2953	3206	3209	3261	3159	0- 10	352.5	352.5	26.7,26.7
20	1109	1025	961.2	987.6	1135	1181	1271	1165	10- 20	554.3	906.7	68.7,68.7
30	249.4	230.4	209.8	219.3	244.2	256.6	262.6	237.6	20- 30	249.0	1156	87.6,87.6
40	67.97	65.10	64.48	65.48	74.57	74.03	72.88	70.50	30- 40	79.23	1235	93.6,93.6
50	36.46	34.51	34.11	35.99	39.64	39.79	39.88	38.19	40- 50	39.97	1275	96.7,96.7
60	18.38	17.41	17.46	17.82	19.34	19.22	19.53	18.63	50- 60	22.73	1298	98.4,98.4
70	9.612	8.866	8.973	9.224	10.44	10.50	10.65	10.01	60- 70	13.87	1312	99.4,99.4
80	3.008	2.765	2.645	2.804	3.210	3.360	3.406	3.189	70- 80	6.060	1318	99.9,99.9
90	0.0700	0.0700	0.0722	0.0700	0.0612	0.1224	0.1596	0.0940	80- 90	1.490	1319	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		



LUMINANCE cd/(m2)		
G(°)	C0/180	C90/270
85	1105	876
80	1328	1167
75	1504	1360
70	2154	2010
65	2516	2382
60	2817	2676
55	3185	3021
50	4347	4066
45	5447	5279

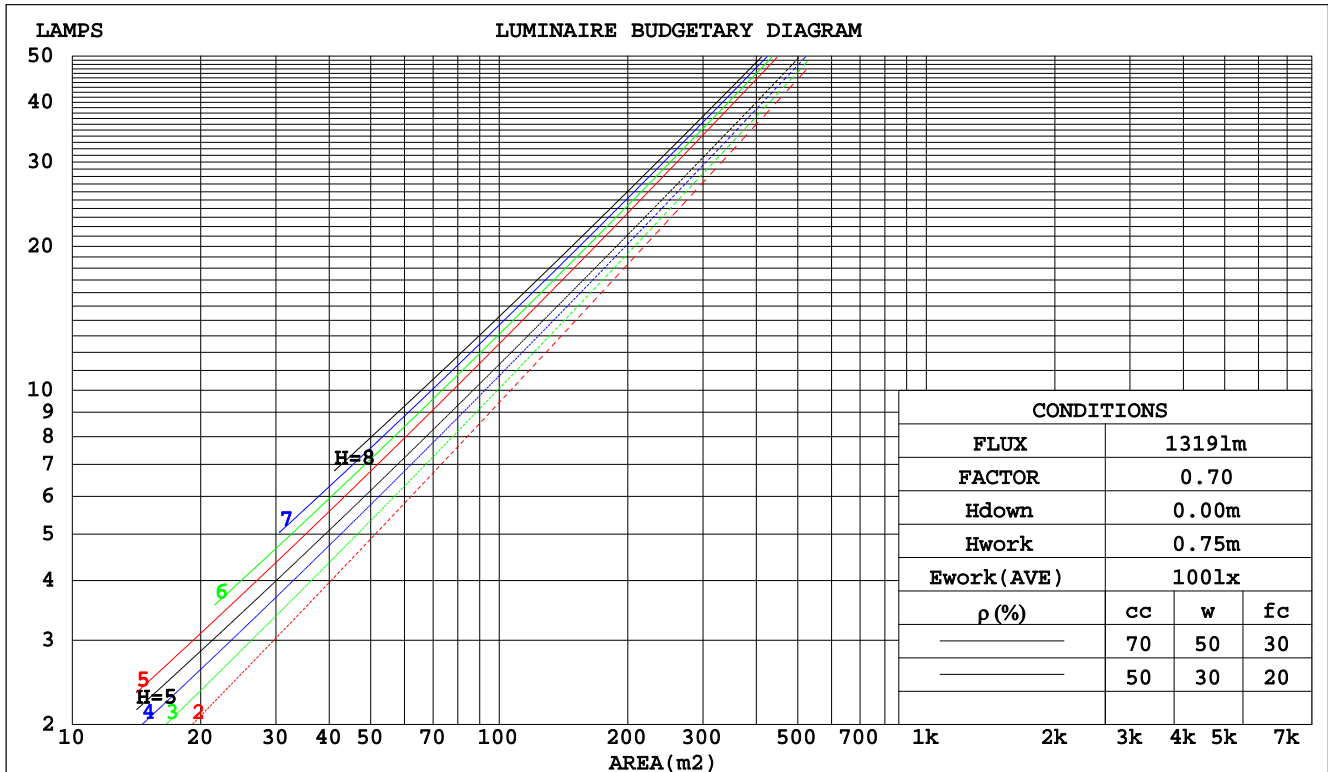
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γ Range: 0 - 90DEG
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 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
 Humidity: 52%
 Test Distance: 5.850m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.7V I:0.0749A P:15.31W PF:0.9262 Lamp Flux:1319.12x1 lm		
NAME: FS6-13W-840-30D	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: L290mm*W45mm*H60mm	
MFR.:		

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						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	1.12	1.10	1.08	1.10	1.08	1.06	1.06	1.04	1.03	1.02	1.01	.00	.99	.98	.97	.95
2.0	1.06	1.02	.99	1.04	1.01	.98	1.01	.98	.96	.98	.96	.94	.95	.94	.92	.91
3.0	1.00	.96	.93	.99	.95	.92	.96	.93	.91	.94	.91	.89	.92	.90	.88	.86
4.0	.95	.91	.87	.94	.90	.87	.92	.89	.86	.90	.87	.85	.89	.86	.84	.83
5.0	.91	.86	.83	.90	.86	.82	.89	.85	.82	.87	.84	.81	.86	.83	.80	.79
6.0	.87	.82	.79	.87	.82	.79	.85	.81	.78	.84	.80	.78	.83	.80	.77	.76
7.0	.84	.79	.76	.83	.79	.75	.82	.78	.75	.81	.77	.75	.80	.77	.74	.73
8.0	.81	.76	.73	.80	.76	.72	.79	.75	.72	.78	.75	.72	.77	.74	.72	.71
9.0	.78	.73	.70	.77	.73	.70	.76	.72	.70	.76	.72	.69	.75	.72	.69	.68
10.0	.75	.70	.67	.75	.70	.67	.74	.70	.67	.73	.70	.67	.73	.69	.67	.66



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WEC AND CCEC

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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	.156	.089	.028	.149	.085	.027	.137	.078	.025	.125	.072	.023	.115	.066	.021		
2.0	.146	.080	.025	.140	.077	.024	.130	.072	.022	.120	.068	.021	.112	.063	.020		
3.0	.137	.073	.022	.132	.071	.021	.123	.067	.020	.115	.063	.019	.108	.060	.018		
4.0	.128	.067	.020	.124	.065	.019	.117	.062	.019	.110	.059	.018	.104	.056	.017		
5.0	.121	.062	.018	.118	.060	.018	.111	.058	.017	.105	.056	.017	.100	.053	.016		
6.0	.115	.057	.016	.112	.056	.016	.106	.054	.016	.101	.052	.015	.096	.051	.015		
7.0	.109	.054	.015	.106	.053	.015	.101	.051	.015	.097	.050	.014	.092	.048	.014		
8.0	.104	.051	.014	.101	.050	.014	.097	.048	.014	.093	.047	.014	.089	.046	.013		
9.0	.099	.048	.013	.097	.047	.013	.093	.046	.013	.089	.045	.013	.086	.044	.013		
10.0	.095	.045	.013	.093	.045	.013	.089	.044	.012	.086	.043	.012	.083	.042	.012		

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	.170	.157	.147	.145	.135	.126	.099	.093	.087	.057	.054	.051	.018	.017	.016	
2.0	.153	.133	.116	.131	.114	.100	.090	.079	.070	.052	.046	.041	.017	.015	.013	
3.0	.139	.113	.093	.119	.098	.081	.082	.068	.057	.047	.040	.033	.015	.013	.011	
4.0	.127	.098	.076	.109	.085	.066	.075	.059	.047	.043	.035	.028	.014	.011	.009	
5.0	.117	.086	.063	.101	.075	.055	.069	.052	.039	.040	.031	.023	.013	.010	.008	
6.0	.109	.076	.053	.093	.066	.047	.064	.046	.033	.037	.027	.020	.012	.009	.006	
7.0	.101	.069	.046	.087	.059	.040	.060	.042	.028	.035	.025	.017	.011	.008	.006	
8.0	.095	.062	.039	.082	.054	.034	.057	.038	.024	.033	.022	.014	.011	.007	.005	
9.0	.090	.056	.034	.077	.049	.030	.053	.034	.021	.031	.020	.013	.010	.007	.004	
10.0	.085	.052	.030	.073	.045	.026	.051	.032	.019	.030	.019	.011	.010	.006	.004	

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

UGR(Unified Glare Rating) Table

Test:U:220.7V I:0.0749A P:15.31W PF:0.9262 Lamp Flux:1319.12x1 lm										
NAME: FS6-13W-840-30D					TYPE:Downlight			SERIAL No.:		
SPEC.:4000K					DIM.: L290mm*W45mm*H60mm					
MFR.:										
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	10.8	11.6	11.1	11.8	11.9	10.5	11.3	10.7	11.4	11.6
3H	11.4	12.1	11.7	12.3	12.5	11.1	11.8	11.4	12.0	12.2
4H	11.6	12.2	11.8	12.4	12.7	11.2	11.9	11.5	12.1	12.3
6H	11.6	12.3	11.9	12.5	12.8	11.3	11.9	11.6	12.2	12.4
8H	11.7	12.3	12.0	12.5	12.8	11.3	11.9	11.6	12.2	12.4
12H	11.7	12.2	12.0	12.5	12.8	11.3	11.9	11.6	12.1	12.4
4H 2H	11.0	11.7	11.3	11.9	12.1	10.7	11.4	11.0	11.6	11.8
3H	11.7	12.3	12.0	12.6	12.8	11.4	12.0	11.8	12.3	12.6
4H	11.9	12.5	12.3	12.7	13.0	11.6	12.2	12.0	12.4	12.8
6H	12.0	12.5	12.4	12.9	13.2	11.7	12.2	12.1	12.5	12.9
8H	12.1	12.5	12.5	12.9	13.2	11.8	12.2	12.1	12.5	12.9
12H	12.1	12.5	12.5	12.9	13.3	11.8	12.2	12.2	12.5	12.9
8H 4H	11.9	12.4	12.3	12.7	13.1	11.6	12.1	12.0	12.4	12.8
6H	12.1	12.5	12.5	12.9	13.3	11.8	12.2	12.2	12.6	13.0
8H	12.2	12.5	12.6	12.9	13.4	11.9	12.2	12.3	12.6	13.0
12H	12.2	12.5	12.7	12.9	13.4	11.9	12.2	12.3	12.6	13.1
12H 4H	11.9	12.3	12.3	12.6	13.0	11.6	12.0	12.0	12.4	12.8
6H	12.1	12.4	12.5	12.8	13.3	11.8	12.1	12.2	12.5	13.0
8H	12.2	12.4	12.6	12.9	13.4	11.8	12.1	12.3	12.6	13.0
Variations with the observer position at spacings:										
S = 1.0H	+ 0.8 / - 1.0					+ 0.8 / - 1.1				
1.5H	+ 1.2 / - 0.9					+ 0.9 / - 0.8				
2.0H	+ 1.7 / - 0.9					+ 1.8 / - 0.9				

CIE Pub.117 Corrected 1319 lm Total Lamp Luminous Flux.(8log(F/F0) = 1.0)

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 Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.7V I:0.0749A P:15.31W PF:0.9262 Lamp Flux:1319.12x1 lm		
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MFR.:		

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) $k(RI) \times RCR = 5$									
$k = 0.60$	88	81	78	87	81	77	86	81	77	74
0.80	95	89	85	94	89	85	93	88	85	81
1.00	99	94	90	98	93	90	97	93	89	85
1.25	103	98	95	102	97	94	100	96	93	89
1.50	106	101	98	105	100	97	102	99	96	92
2.00	108	104	101	107	103	100	104	101	99	94
2.50	110	106	103	109	105	102	105	103	101	95
3.00	112	108	106	110	107	104	107	104	102	96
4.00	114	111	109	112	109	107	108	106	105	98
5.00	115	113	111	113	111	109	109	108	106	99
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):

1257 lm

%lum = 95.3%

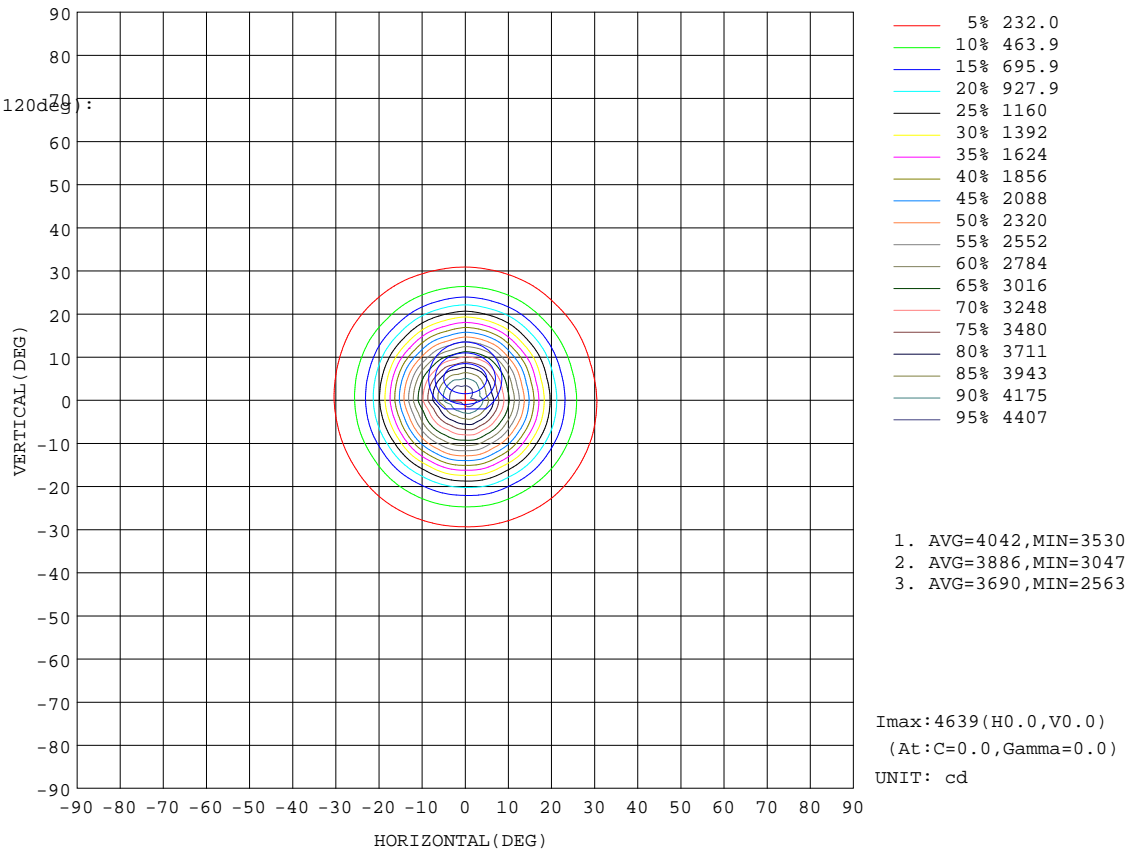
%lamp = 95.3%

Conical surface Flux(120deg):

1297.7 lm

%lum = 98.4%

%lamp = 98.4%



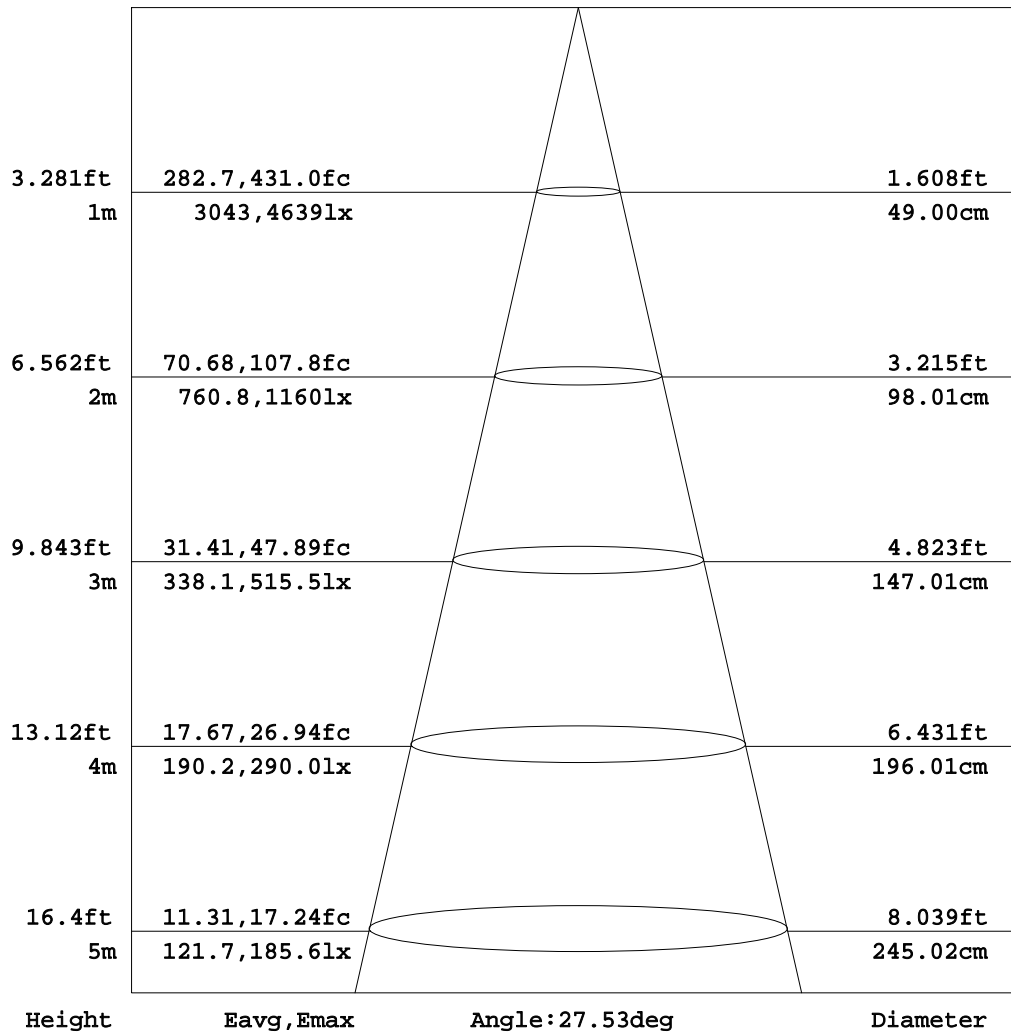
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AAI Figure

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Flux out:594.3 lm



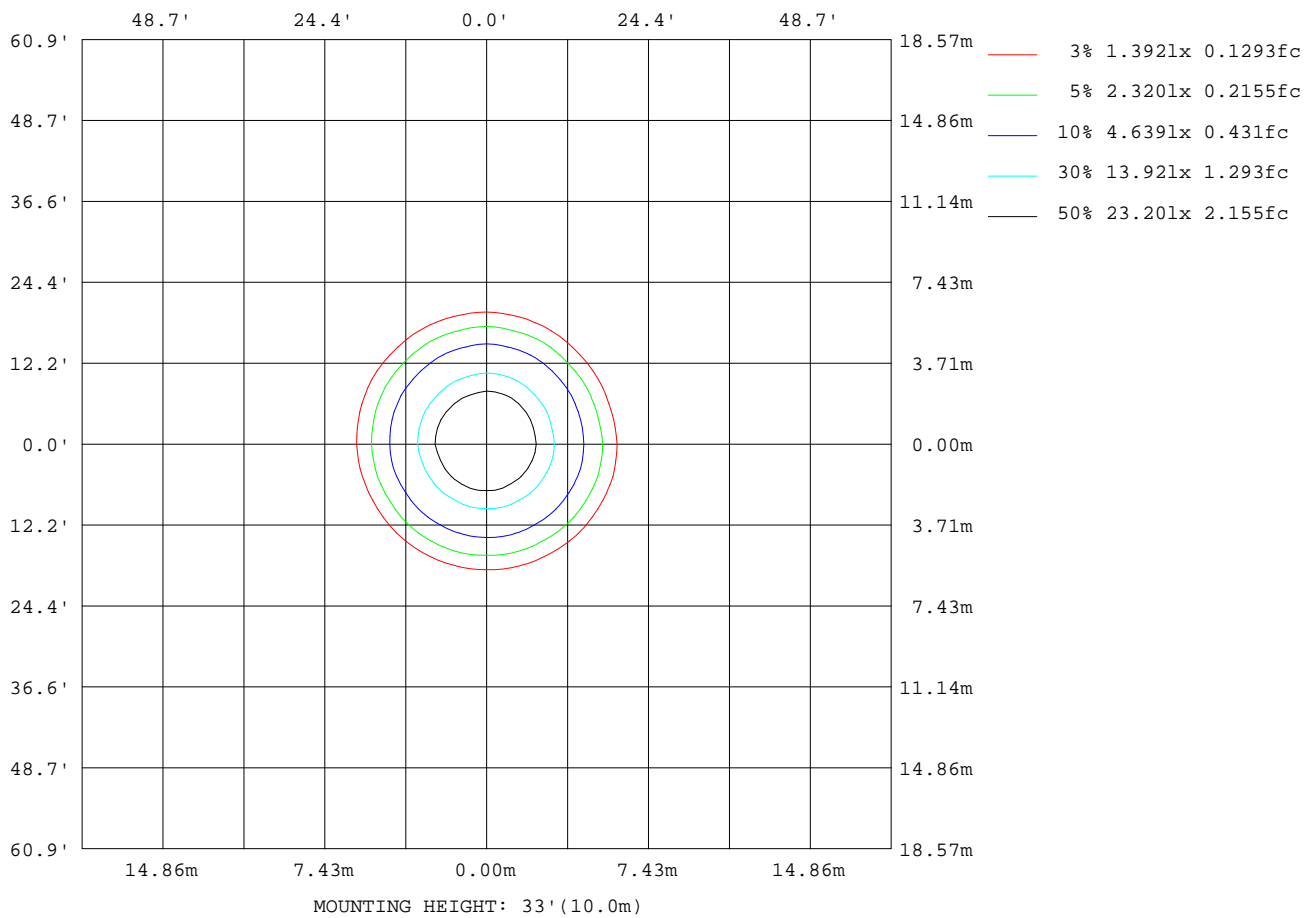
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

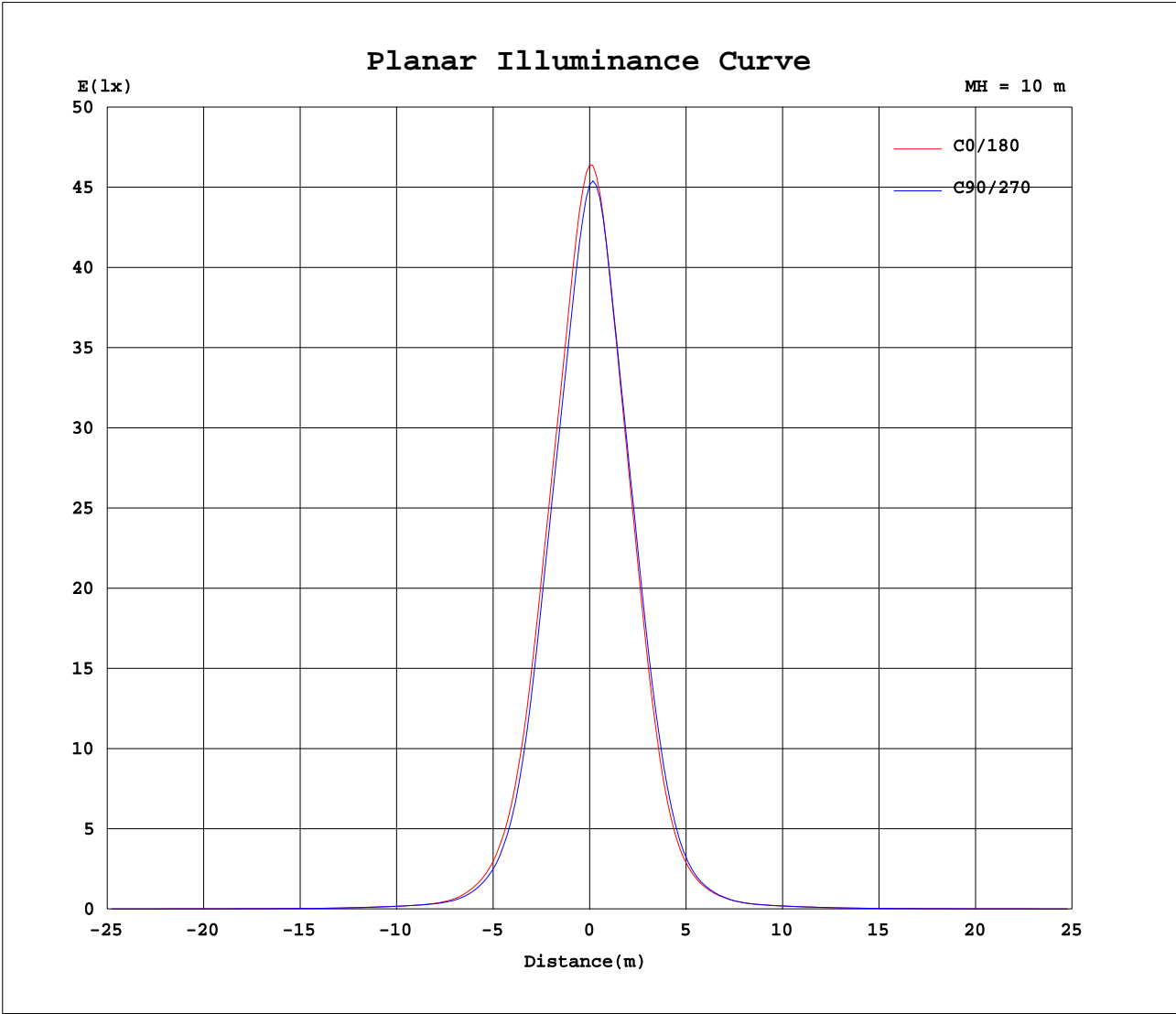
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Planar Illuminance Curve



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UNIT: cd

[illegible]

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Table--2

UNIT: cd

[illegible]

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng Yongjian
Test Date: 2017-06-14

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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:

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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	4639	4628	4606	4599	4582	4531	4514	4503	4485	4483
3.0	4368	4334	4280	4255	4222	4211	4169	4166	4159	4214
6.0	3833	3793	3729	3696	3648	3680	3629	3624	3613	3682
9.0	3245	3205	3133	3112	3068	3104	3066	3079	3068	3136
12.0	2667	2625	2562	2534	2483	2527	2495	2528	2522	2570
15.0	2050	2023	1959	1938	1883	1908	1877	1899	1883	1937
18.0	1449	1436	1379	1366	1304	1328	1288	1302	1277	1337
21.0	958.4	947.3	900.2	885.6	845.4	851.8	823.0	824.3	817.9	853.9
24.0	611.3	601.3	571.9	555.2	537.7	531.5	521.8	521.4	526.9	538.3
27.0	389.1	386.0	366.7	352.7	335.9	334.6	326.8	333.1	333.8	341.7
30.0	249.4	247.9	236.4	230.4	218.2	215.8	209.8	212.0	213.7	219.3
33.0	159.5	156.5	148.1	145.5	136.2	140.0	133.7	136.1	135.7	139.8
36.0	101.9	99.99	95.17	92.90	90.09	91.76	89.82	89.24	90.04	92.13
39.0	73.53	72.42	70.38	69.61	69.15	70.24	69.09	68.73	68.68	69.92
42.0	59.72	58.98	57.39	57.59	56.97	58.30	57.12	57.32	57.79	58.66
45.0	50.26	50.05	48.54	48.86	48.55	49.28	48.71	49.11	49.61	50.44
48.0	42.46	41.84	40.59	40.58	40.23	41.12	40.46	40.85	41.35	42.47
51.0	33.33	32.76	31.67	31.41	30.82	31.48	31.09	31.22	31.62	32.67
54.0	25.55	25.29	24.48	24.29	23.88	24.51	24.09	24.13	24.22	24.70
57.0	21.30	21.05	20.52	20.32	20.08	20.67	20.40	20.36	20.36	20.71
60.0	18.38	18.06	17.66	17.41	17.27	17.73	17.46	17.40	17.50	17.82
63.0	15.63	15.35	14.97	14.71	14.65	15.04	14.78	14.76	14.82	15.06
66.0	13.02	12.79	12.41	12.17	12.18	12.42	12.29	12.28	12.24	12.51
69.0	10.48	10.23	9.844	9.673	9.614	9.941	9.793	9.850	9.740	10.04
72.0	7.973	7.710	7.404	7.209	6.984	7.324	7.127	7.098	7.071	7.541
75.0	5.081	4.951	4.781	4.728	4.599	4.672	4.593	4.621	4.663	4.801
78.0	3.800	3.703	3.568	3.517	3.404	3.454	3.387	3.414	3.435	3.567
81.0	2.634	2.555	2.444	2.404	2.310	2.347	2.293	2.310	2.337	2.446
84.0	1.587	1.514	1.423	1.394	1.318	1.350	1.307	1.329	1.344	1.447
87.0	0.6551	0.5904	0.5173	0.4900	0.4319	0.4662	0.4361	0.4465	0.4690	0.5445
90.0	0.0700	0.0700	0.0722	0.0700	0.0722	0.0722	0.0722	0.0722	0.0722	0.0700
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	4457	4434	4639	4628	4606	4599	4582	4531	4514	4503
3.0	4226	4237	4488	4502	4512	4513	4520	4432	4453	4435
6.0	3728	3770	3999	4036	4057	4050	4061	3979	4020	3998
9.0	3181	3211	3410	3430	3445	3421	3457	3396	3449	3437
12.0	2606	2640	2793	2798	2811	2785	2823	2795	2868	2856
15.0	1972	2022	2145	2164	2178	2156	2201	2172	2252	2224
18.0	1358	1422	1508	1531	1557	1551	1590	1578	1633	1608
21.0	872.9	928.3	974.7	990.9	1025	1020	1061	1064	1097	1067
24.0	541.9	582.9	602.0	614.6	638.9	632.5	662.6	665.7	688.3	667.2
27.0	341.6	360.4	376.6	385.2	395.5	393.5	409.1	408.7	418.0	403.0
30.0	219.7	232.0	244.2	249.9	257.2	256.6	262.3	258.4	262.6	255.2
33.0	142.4	149.5	163.6	167.9	175.7	172.2	174.0	171.4	172.3	170.1
36.0	94.83	99.91	110.6	114.3	116.3	113.5	114.2	110.5	113.3	111.9
39.0	71.44	73.05	80.40	82.59	82.49	80.71	80.50	78.48	79.68	79.77
42.0	59.72	59.97	65.37	66.23	65.89	64.63	63.87	62.37	63.21	63.39
45.0	50.68	51.05	54.88	55.45	55.45	54.12	53.92	52.25	53.44	53.26
48.0	42.68	42.78	46.14	46.39	46.70	45.71	45.81	44.53	45.51	45.31
51.0	33.01	33.38	36.16	36.33	37.00	36.58	37.04	36.13	36.81	36.51
54.0	25.00	25.53	27.28	27.44	27.75	27.73	28.28	27.79	28.25	28.01
57.0	20.91	21.17	22.51	22.37	22.49	22.48	22.65	22.48	22.80	22.75
60.0	17.95	18.18	19.34	19.19	19.34	19.22	19.37	19.34	19.53	19.53
63.0	15.23	15.42	16.53	16.39	16.53	16.57	16.60	16.59	16.78	16.80
66.0	12.66	12.88	13.90	13.83	13.95	14.00	14.05	13.97	14.15	14.14
69.0	10.14	10.46	11.32	11.22	11.41	11.35	11.51	11.42	11.54	11.53
72.0	7.750	7.965	8.656	8.689	8.805	8.720	8.933	8.783	8.900	8.973
75.0	4.850	4.975	5.374	5.462	5.620	5.696	5.944	5.835	6.033	6.020
78.0	3.619	3.729	4.032	4.099	4.182	4.182	4.246	4.167	4.231	4.226
81.0	2.494	2.581	2.818	2.878	2.956	2.974	3.033	2.972	3.017	3.003
84.0	1.484	1.562	1.719	1.779	1.854	1.877	1.944	1.888	1.927	1.921
87.0	0.5850	0.6450	0.7447	0.8052	0.8627	0.9014	0.9502	0.9190	0.9480	0.9495
90.0	0.0700	0.0700	0.0612	0.0700	0.0787	0.1224	0.1399	0.1662	0.1596	0.1705
G/C	300.0	315.0	330.0	345.0						
0.0	4485	4483	4457	4434						
3.0	4410	4351	4289	4240						
6.0	3989	3901	3829	3767						
9.0	3435	3348	3296	3228						
12.0	2846	2761	2709	2642						
15.0	2210	2121	2091	2019						
18.0	1584	1513	1496	1425						
21.0	1059	1011	994.2	948.1						

C Range: 0 - 360DEG

C Interval: 15.0DEG

Test Speed: HIGH

Temperature: 25.3DEG

Operators: Meng Yongjian

Test Date: 2017-06-14

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	662.0	627.9	618.9	597.5
27.0	402.7	378.3	378.8	369.4
30.0	251.0	237.6	239.4	236.1
33.0	164.7	157.2	156.1	153.9
36.0	110.9	104.0	104.3	102.0
39.0	79.14	76.33	75.13	73.95
42.0	62.85	61.70	61.24	60.05
45.0	52.98	52.22	51.59	50.45
48.0	44.91	44.28	43.63	42.75
51.0	36.02	35.05	34.55	33.60
54.0	27.74	26.69	26.34	25.63
57.0	22.56	21.68	21.49	21.19
60.0	19.35	18.63	18.45	18.33
63.0	16.65	16.00	15.77	15.73
66.0	13.98	13.37	13.27	13.12
69.0	11.36	10.83	10.86	10.64
72.0	8.717	8.293	8.313	8.133
75.0	5.863	5.455	5.277	5.121
78.0	4.152	3.989	3.909	3.819
81.0	2.947	2.810	2.757	2.668
84.0	1.876	1.759	1.706	1.630
87.0	0.9087	0.8182	0.7689	0.7067
90.0	0.1377	0.0940	0.0678	0.0634

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γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity: 52%
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