

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.04V I:0.3455A P:38.345W PF:0.9874 Freq:64.98Hz
Lamp Flux:5767.28x1 lm

NAME: ASD-LSF8-4A40SM-WH-RGBW

TYPE:

WEIGHT:

SPEC.: 40W-5000K

DIM.:

SERIAL No.:

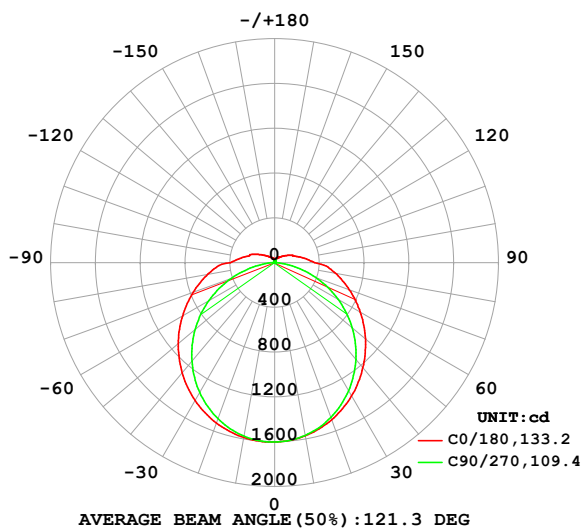
MFR.: ASD Lighting Corp.

SUR.: 1.2*0.09

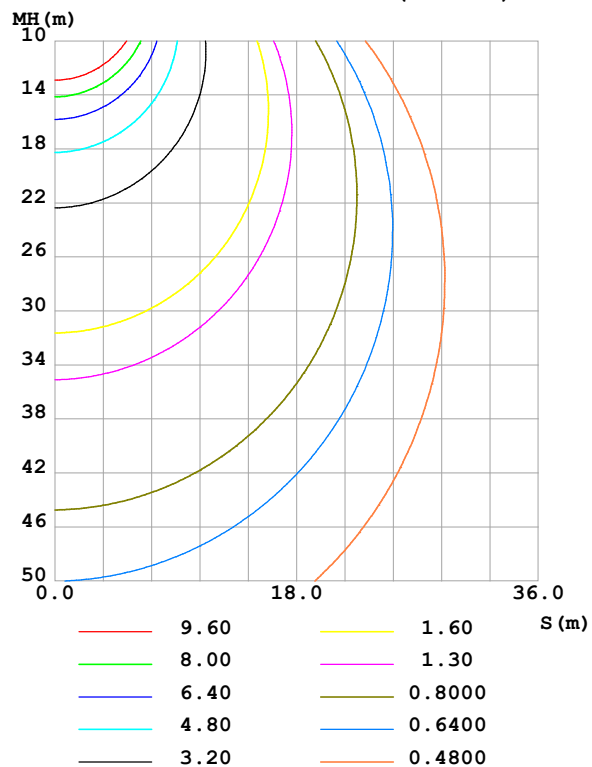
Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 150.41 lm/W
MODEL	ASD-LSF8-4A40SM-WH-RGBW	I _{max} (cd)	1603	S/MH (C0/180)	1.32	
NOMINAL POWER (W)	40	LOR (%)	100.0	S/MH (C90/270)	1.24	
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	5767.3	η UP, DN (C0-180)	4.5, 44.7	
NOMINAL FLUX (lm)	5767.28	CIE CLASS	DIRECT	η UP, DN (C180-360)	4.9, 46.0	
LAMPS INSIDE	1	η up (%)	9.3	CIBSE SHR NOM	1.25	
TEST VOLTAGE (V)	120	η down (%)	90.7	CIBSE SHR MAX	1.35	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 27°C
Operators: lianghaizhu-1
Test Date: 2025-08-01

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.364
Humidity: 56%
Test Distance: 8.300m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1571	1569	1567	1575	1586	1579	1574	1573	0- 10	151.6	151.6	2.63,2.63
20	1493	1482	1471	1495	1524	1502	1484	1491	10- 20	434.7	586.3	10.2,10.2
30	1376	1347	1322	1368	1422	1377	1339	1359	20- 30	660.9	1247	21.6,21.6
40	1227	1175	1129	1203	1286	1212	1151	1189	30- 40	803.6	2051	35.6,35.6
50	1059	975.6	904.3	1010	1125	1019	927.7	992.5	40- 50	850.2	2901	50.3,50.3
60	882.8	769.0	654.9	807.0	950.1	813.4	677.7	786.1	50- 60	803.6	3705	64.2,64.2
70	711.4	571.3	390.9	608.0	774.1	610.2	411.1	586.0	60- 70	680.9	4386	76,76
80	552.9	396.0	138.8	428.3	608.2	426.3	152.9	409.8	70- 80	510.7	4896	84.9,84.9
90	357.5	212.6	1.829	257.9	395.8	256.4	3.360	238.4	80- 90	333.1	5229	90.7,90.7
100	256.8	126.7	2.602	157.1	285.0	161.2	4.236	146.8	90-100	192.8	5422	94,94
110	177.6	90.31	4.276	99.71	218.0	98.38	6.322	101.2	100-110	125.1	5547	96.2,96.2
120	132.3	62.49	6.938	67.36	145.1	67.13	8.964	68.21	110-120	83.85	5631	97.6,97.6
130	89.44	43.57	10.08	51.68	96.10	52.13	12.08	48.18	120-130	53.37	5684	98.6,98.6
140	65.16	33.76	12.97	44.61	68.61	42.45	15.02	39.40	130-140	34.85	5719	99.2,99.2
150	52.06	26.62	16.96	35.69	43.00	37.00	18.72	31.84	140-150	23.03	5742	99.6,99.6
160	41.22	24.35	21.63	30.85	38.39	31.11	22.74	27.59	150-160	14.57	5757	99.8,99.8
170	32.09	24.66	25.80	24.81	24.29	25.28	26.12	25.96	160-170	8.016	5765	100,100
180	18.32	24.51	27.73	26.31	18.30	25.41	27.76	26.44	170-180	2.334	5767	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 2476.2 lm

%lum = 42.9%

%lamp = 42.9%

Conical surface Flux(120deg): 3704.6 lm

%lum = 64.2%

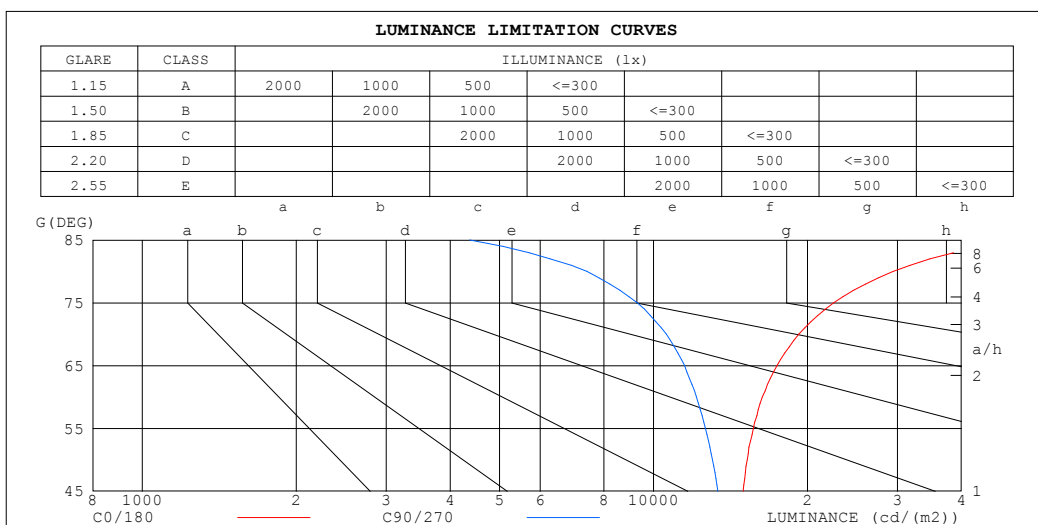
%lamp = 64.2%

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27°C
 Operators:lianghaizhu-1
 Test Date:2025-08-01

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364
 Humidity:56%
 Test Distance:8.300m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.04V I:0.3455A P:38.345W PF:0.9874 Freq:64.98Hz Lamp Flux:5767.28x1 lm		
NAME: ASD-LSF8-4A40SM-WH-RGBW	TYPE:	WEIGHT:
SPEC.: 40W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.: 1.2*0.09	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	50863	4371
80	29462	7403
75	22513	9289
70	19246	10587
65	17453	11493
60	16336	12133
55	15679	12632
50	15250	13032
45	14971	13366

C Range: 0 - 360DEG
C Interval: 45.0DEG
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γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.364
Humidity: 56%
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Remarks:

WEC AND CCEC

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NAME: ASD-LSF8-4A40SM-WH-RGBW	TYPE:	WEIGHT:
SPEC.: 40W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.: 1.2*0.09	Shielding Angle:

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	.362	.206	.065	.352	.201	.064	.333	.191	.061	.316	.182	.058	.300	.174	.056		
2.0	.321	.176	.054	.312	.172	.053	.295	.164	.051	.279	.157	.049	.265	.150	.047		
3.0	.288	.153	.046	.280	.150	.045	.265	.144	.044	.251	.138	.042	.238	.132	.041		
4.0	.261	.136	.040	.254	.133	.039	.241	.128	.038	.228	.122	.037	.216	.117	.036		
5.0	.239	.122	.035	.232	.119	.035	.220	.115	.034	.209	.110	.033	.198	.106	.032		
6.0	.220	.110	.032	.214	.108	.031	.203	.104	.030	.192	.100	.029	.183	.096	.029		
7.0	.203	.100	.028	.198	.099	.028	.188	.095	.027	.178	.091	.027	.170	.088	.026		
8.0	.189	.092	.026	.184	.091	.026	.175	.087	.025	.166	.084	.024	.158	.081	.024		
9.0	.176	.085	.024	.172	.084	.024	.164	.081	.023	.156	.078	.022	.148	.075	.022		
10.0	.165	.079	.022	.161	.078	.022	.154	.075	.021	.146	.073	.021	.140	.070	.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	.262	.262	.262	.224	.224	.224	.153	.153	.153	.088	.088	.088	.028	.028	.028		
1.0	.256	.227	.202	.219	.195	.174	.150	.134	.120	.086	.078	.070	.028	.025	.023		
2.0	.248	.204	.167	.213	.176	.144	.146	.121	.100	.084	.071	.059	.027	.023	.019		
3.0	.241	.187	.144	.206	.161	.125	.142	.112	.088	.082	.065	.052	.026	.021	.017		
4.0	.233	.174	.129	.200	.150	.112	.137	.105	.079	.079	.061	.047	.026	.020	.015		
5.0	.225	.164	.119	.193	.142	.104	.133	.099	.073	.077	.058	.043	.025	.019	.014		
6.0	.218	.156	.112	.187	.135	.097	.129	.095	.069	.075	.056	.041	.024	.018	.013		
7.0	.211	.149	.106	.181	.129	.092	.125	.091	.066	.073	.053	.039	.023	.017	.013		
8.0	.204	.143	.102	.176	.124	.089	.121	.087	.063	.071	.052	.038	.023	.017	.012		
9.0	.198	.139	.099	.170	.120	.086	.118	.085	.061	.069	.050	.036	.022	.016	.012		
10.0	.192	.134	.096	.165	.117	.084	.115	.082	.060	.067	.049	.036	.022	.016	.012		

C Range: 0 - 360DEG

C Interval: 45.0DEG

Test Speed: HIGH

Temperature:27℃

Operators:lianghaizhu-1

Test Date:2025-08-01

γ Range: 0 - 180DEG

γ Interval: 1.0DEG

Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364

Humidity:56%

Test Distance:8.300m [K=1.0000]

Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.04V I:0.3455A P:38.345W PF:0.9874 Freq:64.98Hz Lamp Flux:5767.28x1 lm										
NAME: ASD-LSF8-4A40SM-WH-RGBW					TYPE:			WEIGHT:		
SPEC.: 40W-5000K					DIM.:			SERIAL No.:		
MFR.: ASD Lighting Corp.					SUR.: 1.2*0.09			Shielding Angle:		
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	21.9	23.3	22.3	23.7	24.1	20.8	22.3	21.2	22.7	23.1
3H	24.1	25.5	24.6	25.9	26.3	22.3	23.7	22.8	24.1	24.5
4H	25.4	26.6	25.8	27.1	27.5	22.9	24.2	23.3	24.6	25.0
6H	26.7	27.9	27.2	28.4	28.9	23.2	24.5	23.7	24.9	25.4
8H	27.5	28.6	28.0	29.1	29.6	23.3	24.5	23.8	24.9	25.4
12H	28.4	29.5	28.8	29.9	30.4	23.3	24.5	23.8	24.9	25.4
4H 2H	22.4	23.7	22.9	24.1	24.6	21.7	22.9	22.1	23.4	23.8
3H	24.9	26.0	25.4	26.5	27.0	23.4	24.5	23.9	25.0	25.5
4H	26.3	27.3	26.8	27.8	28.4	24.2	25.2	24.7	25.7	26.2
6H	27.9	28.8	28.4	29.3	29.9	24.7	25.6	25.2	26.1	26.7
8H	28.7	29.6	29.3	30.1	30.7	24.9	25.7	25.4	26.3	26.8
12H	29.8	30.6	30.3	31.1	31.7	25.0	25.7	25.5	26.3	26.9
8H 4H	26.6	27.5	27.2	28.0	28.6	24.8	25.7	25.4	26.2	26.8
6H	28.5	29.2	29.0	29.7	30.4	25.7	26.4	26.3	27.0	27.6
8H	29.5	30.2	30.1	30.7	31.4	26.1	26.7	26.7	27.3	27.9
12H	30.8	31.3	31.4	31.9	32.6	26.3	26.9	26.9	27.5	28.2
12H 4H	26.7	27.5	27.2	28.0	28.6	25.0	25.8	25.6	26.4	27.0
6H	28.6	29.2	29.2	29.8	30.5	26.1	26.7	26.7	27.3	28.0
8H	29.7	30.3	30.3	30.9	31.6	26.6	27.1	27.2	27.7	28.4
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.2					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.4				

CIE Pub.117, 5767 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 6.1)
Area: 0.108 m2

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:27°C
Operators:lianghaizhu-1
Test Date:2025-08-01

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364
Humidity:56%
Test Distance:8.300m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.04V I:0.3455A P:38.345W PF:0.9874 Freq:64.98Hz Lamp Flux:5767.28x1 lm		
NAME: ASD-LSF8-4A40SM-WH-RGBW	TYPE:	WEIGHT:
SPEC.: 40W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.: 1.2*0.09	Shielding Angle:

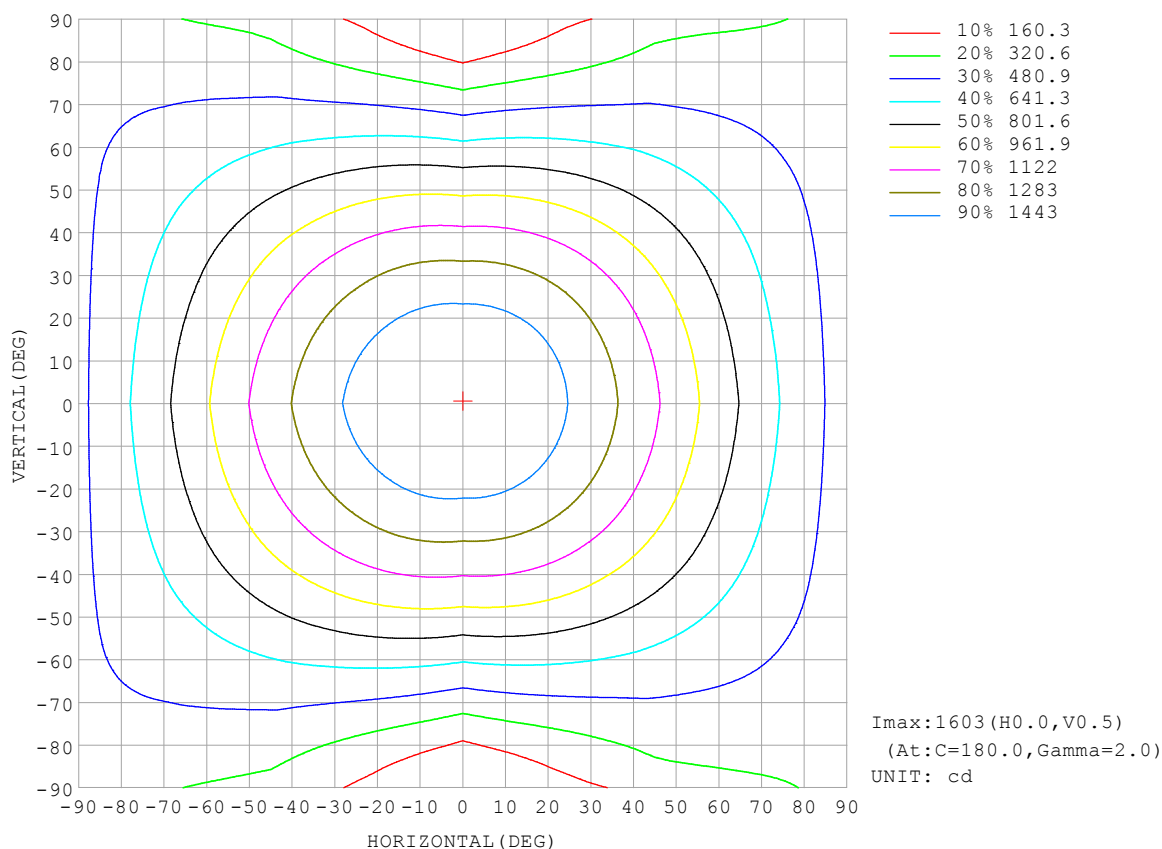
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	52	40	33	51	40	33	50	39	32	26
0.80	62	49	41	60	48	41	58	47	40	33
1.00	69	57	49	68	56	49	65	57	48	40
1.25	76	65	57	75	64	56	71	62	55	46
1.50	81	70	62	79	69	61	75	66	60	51
2.00	89	78	71	86	77	70	81	74	68	58
2.50	93	83	76	90	82	75	85	78	72	62
3.00	96	88	81	93	86	80	88	82	77	66
4.00	101	94	88	98	91	86	92	87	82	70
5.00	104	97	92	100	95	90	94	90	86	74
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

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γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.364
Humidity: 56%
Test Distance: 8.300m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:120.04V I:0.3455A P:38.345W PF:0.9874 Freq:64.98Hz Lamp Flux:5767.28x1 lm		
NAME: ASD-LSF8-4A40SM-WH-RGBW	TYPE:	WEIGHT:
SPEC.: 40W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.: 1.2*0.09	Shielding Angle:

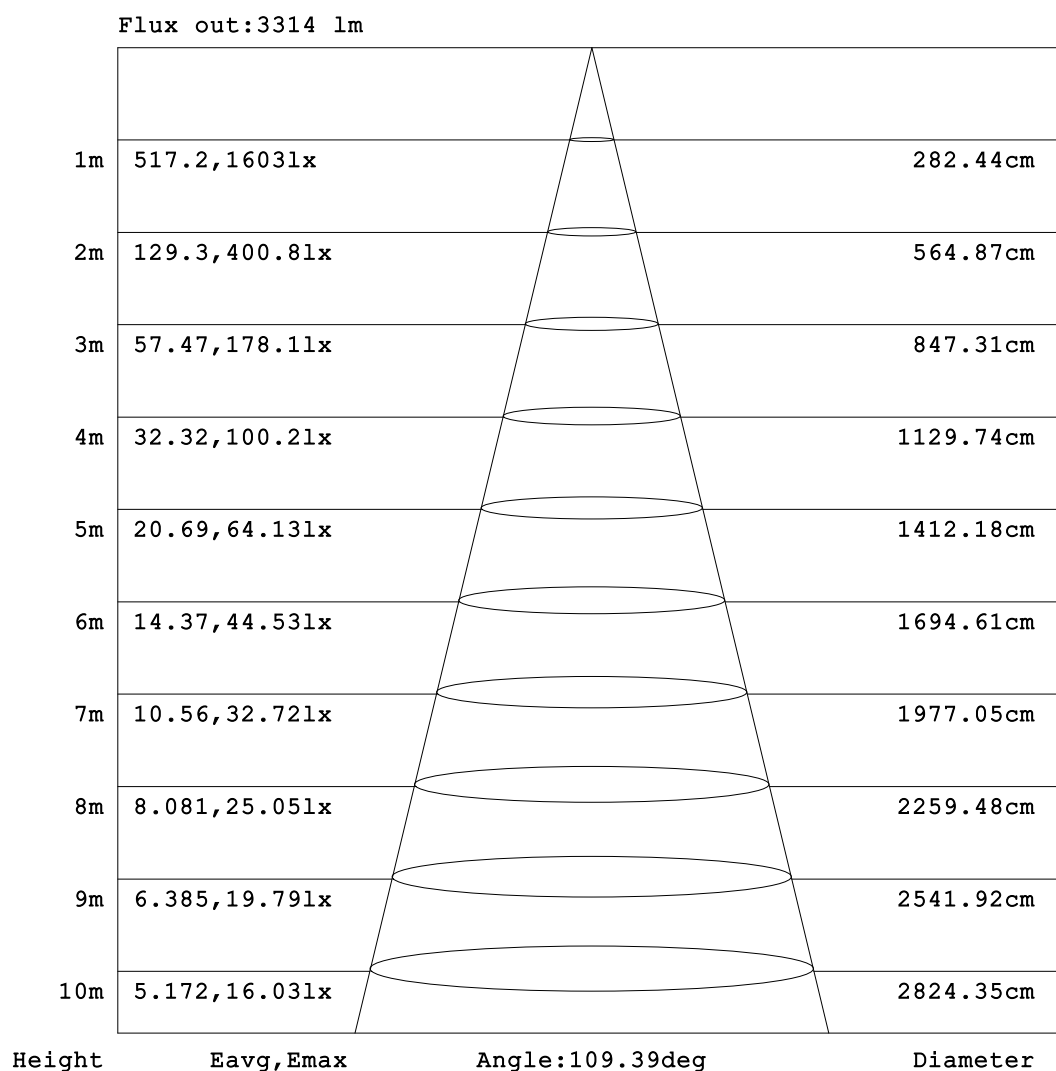


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Remarks:

AAI Figure

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SPEC.: 40W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.: 1.2*0.09	Shielding Angle:

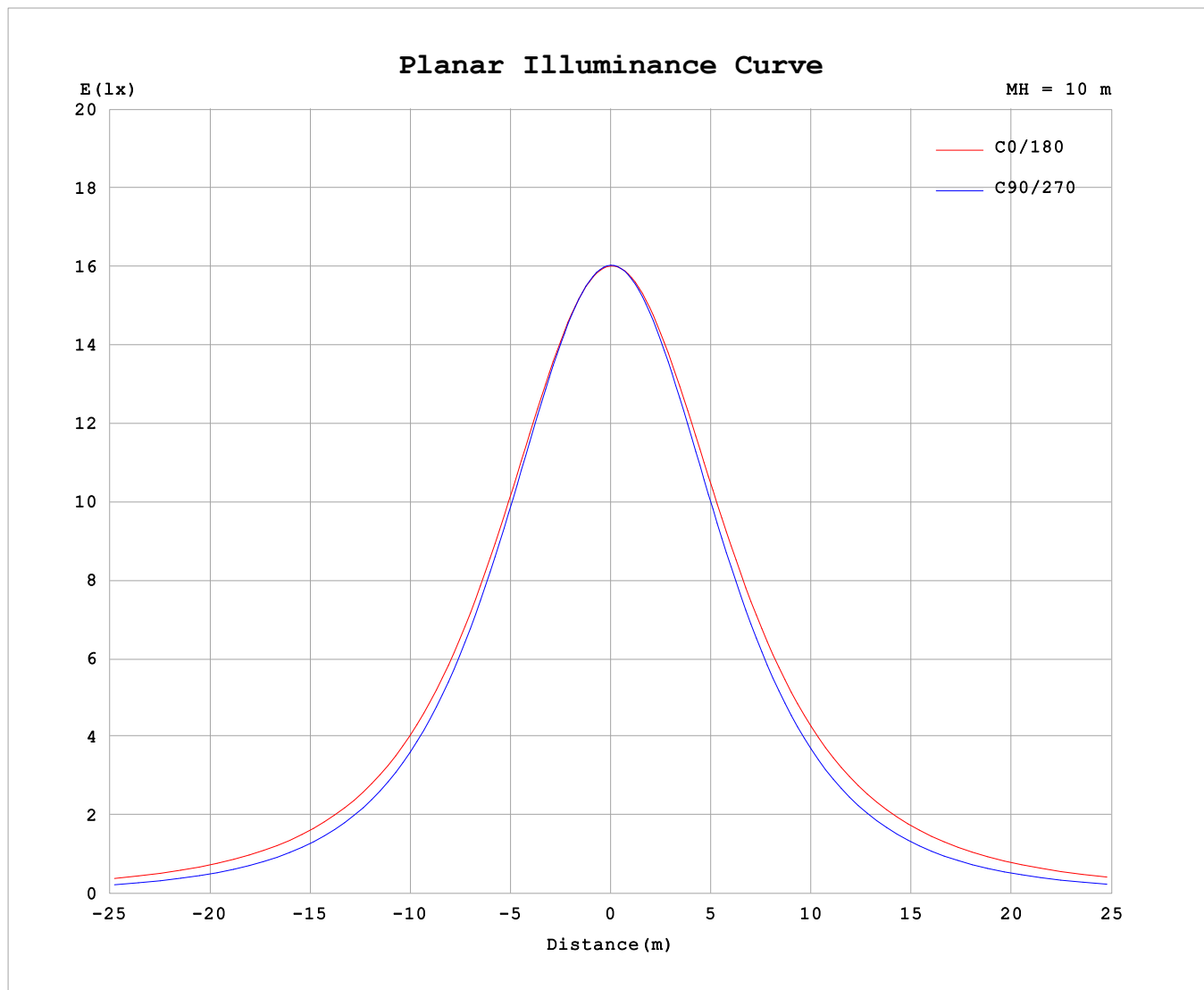


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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Remarks:

Planar Illuminance Curve



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Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.364
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Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.04V I:0.3455A P:38.345W PF:0.9874 Freq:64.98Hz Lamp Flux:5767.28x1 lm		
NAME: ASD-LSF8-4A40SM-WH-RGBW	TYPE:	WEIGHT:
SPEC.: 40W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.: 1.2*0.09	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	45	90	135	180	225	270	315										
0	1602	1602	1602	1602	1602	1602	1602	1602										
5	1593	1593	1593	1596	1600	1598	1596	1595										
10	1571	1569	1567	1575	1586	1579	1574	1573										
15	1537	1532	1526	1542	1561	1547	1536	1539										
20	1493	1482	1471	1495	1524	1502	1484	1491										
25	1439	1420	1402	1437	1478	1445	1418	1431										
30	1376	1347	1322	1368	1422	1377	1339	1359										
35	1304	1265	1230	1290	1357	1299	1250	1279										
40	1227	1175	1129	1203	1286	1212	1151	1189										
45	1144	1077	1020	1109	1207	1117	1043	1093										
50	1059	976	904	1010	1125	1019	928	993										
55	972	872	782	909	1039	916	806	889										
60	883	769	655	807	950	813	678	786										
65	797	668	524	706	862	711	546	684										
70	711	571	391	608	774	610	411	586										
75	630	480	260	515	688	514	278	494										
80	553	396	139	428	608	426	153	410										
85	479	320	41.1	350	530	346	51.8	334										
90	357	213	1.83	258	396	256	3.36	238										
95	305	167	2.02	198	338	204	3.35	190										
100	257	127	2.60	157	285	161	4.24	147										
105	214	102	3.31	122	238	122	5.21	115										
110	178	90.3	4.28	99.7	218	98.4	6.32	101										
115	162	74.8	5.57	81.2	178	80.3	7.60	82.0										
120	132	62.5	6.94	67.4	145	67.1	8.96	68.2										
125	108	53.9	8.53	57.9	118	57.9	10.5	57.2										
130	89.4	43.6	10.1	51.7	96.1	52.1	12.1	48.2										
135	75.2	37.9	11.5	47.7	80.1	48.4	13.6	43.7										
140	65.2	33.8	13.0	44.6	68.6	42.4	15.0	39.4										
145	57.9	29.9	14.7	38.4	60.2	38.8	16.6	35.3										
150	52.1	26.6	17.0	35.7	43.0	37.0	18.7	31.8										
155	46.5	24.3	19.3	33.8	44.7	33.4	20.8	28.5										
160	41.2	24.4	21.6	30.9	38.4	31.1	22.7	27.6										
165	36.6	24.4	23.9	27.6	32.6	29.1	24.6	26.6										
170	32.1	24.7	25.8	24.8	24.3	25.3	26.1	26.0										
175	19.1	24.2	27.2	21.3	21.7	20.1	27.1	25.2										
180	18.3	24.5	27.7	26.3	18.3	25.4	27.8	26.4										

C Range: 0 - 360DEG

C Interval: 45.0DEG

Test Speed: HIGH

Temperature:27℃

Operators:lianghaizhu-1

Test Date:2025-08-01

γ Range: 0 - 180DEG

γ Interval: 1.0DEG

Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364

Humidity:56%

Test Distance:8.300m [K=1.0000]

Remarks: