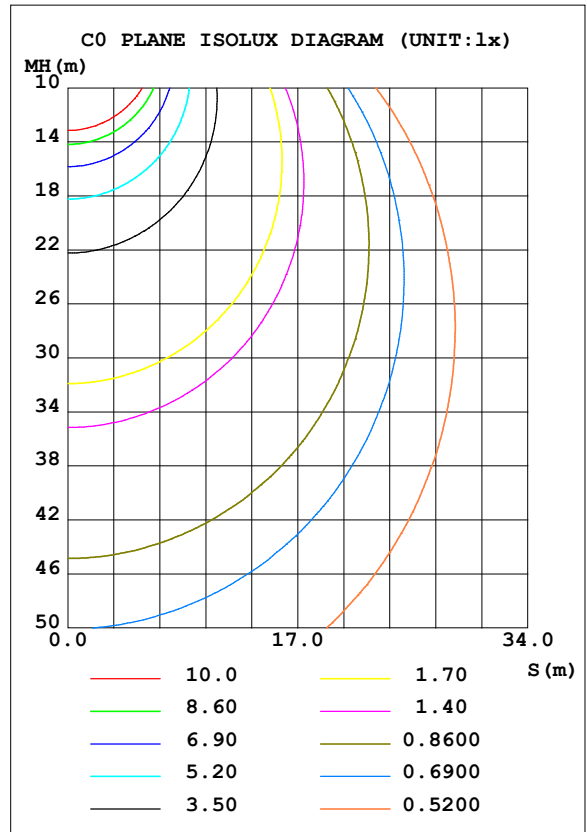
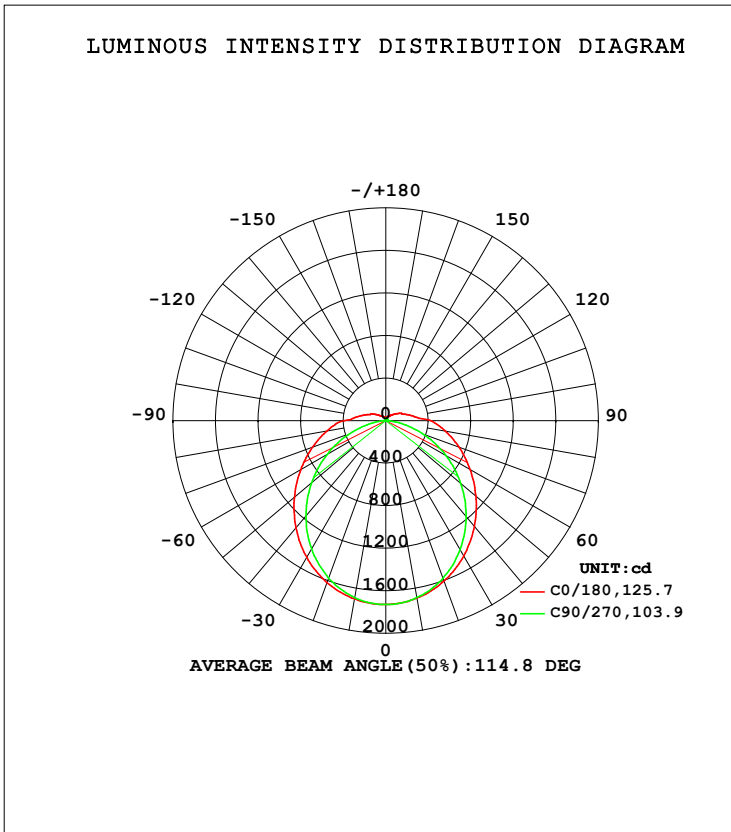


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.9V I:0.3216A P:38.75W PF:0.9969 Freq:59.98Hz Lamp Flux:5866.48x1 lm		
NAME: ASD-LSF8-4A40WH	TYPE:	WEIGHT:
SPEC.: 40W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:1.2*0.09m	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 151.40 lm/W			
MODEL	ASD-LSF8-4A40WH	Imax (cd)	1730	S/MH (C0/180)	1.28
NOMINAL POWER (W)	40	LOR (%)	100.0	S/MH (C90/270)	1.21
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	5866.5	<input type="checkbox"/> UP, DN (C0-180)	4.5, 45.7
NOMINAL FLUX (lm)	5866.48	CIE CLASS	DIRECT	<input type="checkbox"/> UP, DN (C180-360)	4.4, 45.4
LAMPS INSIDE	1	<input type="checkbox"/> up (%)	8.9	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	120	<input type="checkbox"/> down (%)	91.1	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature: 27DEG  
 Operators: lianghaizhu  
 Test Date: 2024-07-30

Range: 0 - 180DEG  
 Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.364  
 Humidity: 56%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

mm	C0	C45	C90	C135	C180	C225	C270	C315	mm	□ zone	□ total	%lum, lamp
10	1695	1690	1688	1696	1700	1697	1689	1689	0- 10	163.4	163.4	2.78,2.78
20	1604	1590	1575	1599	1621	1597	1575	1589	10- 20	465.8	629.2	10.7,10.7
30	1468	1430	1401	1442	1486	1441	1394	1429	20- 30	700.8	1330	22.7,22.7
40	1297	1230	1175	1246	1315	1238	1169	1230	30- 40	838.9	2169	37,37
50	1107	1009	922.2	1025	1121	1015	912.8	1006	40- 50	870.6	3040	51.8,51.8
60	915.5	786.5	652.3	800.5	923.7	789.1	638.6	784.7	50- 60	805.7	3845	65.5,65.5
70	733.4	584.5	379.8	592.8	733.5	580.3	361.9	581.1	60- 70	669.6	4515	77,77
80	568.6	413.6	132.2	416.2	561.8	403.8	114.5	411.1	70- 80	496.6	5011	85.4,85.4
90	425.4	279.4	14.78	261.3	391.0	243.6	11.12	272.8	80- 90	331.7	5343	91.1,91.1
100	260.2	145.3	15.66	142.0	253.4	137.5	12.34	150.4	90-100	194.4	5538	94.4,94.4
110	182.7	101.1	14.56	92.23	171.0	89.71	12.95	103.6	100-110	121.4	5659	96.5,96.5
120	137.8	67.63	13.25	58.72	123.2	57.80	12.93	69.77	110-120	80.87	5740	97.8,97.8
130	92.24	47.58	12.67	42.90	79.50	42.59	13.16	48.01	120-130	51.00	5791	98.7,98.7
140	64.21	35.10	13.90	35.70	55.11	35.68	14.50	37.33	130-140	32.05	5823	99.3,99.3
150	48.99	28.47	16.58	29.73	40.81	29.89	17.20	30.63	140-150	20.87	5844	99.6,99.6
160	39.03	25.80	19.68	25.77	31.51	26.05	19.87	27.25	150-160	13.18	5857	99.8,99.8
170	31.16	25.34	22.19	21.98	24.63	22.05	22.18	26.05	160-170	7.316	5864	100,100
180	19.82	23.07	23.30	23.60	19.82	23.06	23.32	23.62	170-180	2.247	5866	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 2606.7 lm

%lum = 44.4%

%lamp = 44.4%

Conical surface Flux(120deg): 3845.2 lm

%lum = 65.5%

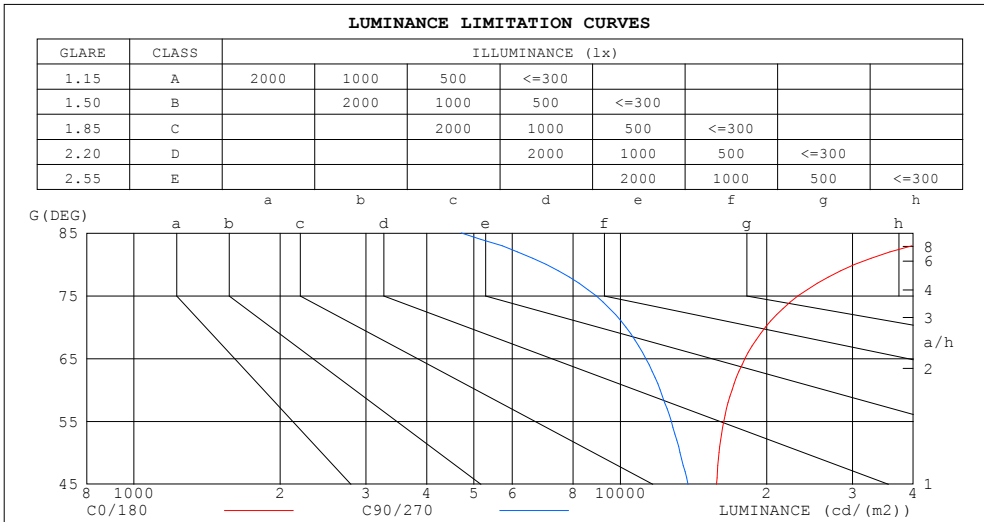
%lamp = 65.5%

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:27DEG  
 Operators:lianghaizhu  
 Test Date:2024-07-30

□ Range: 0 - 180DEG  
 □ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.364  
 Humidity:56%  
 Test Distance:6.500m [K=1.0000]  
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.9V I:0.3216A P:38.75W PF:0.9969 Freq:59.98Hz Lamp Flux:5866.48x1 lm		
NAME: ASD-LSF8-4A40WH	TYPE:	WEIGHT:
SPEC.: 40W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:1.2*0.09m	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	52519	4713
80	30345	7042
75	23207	8918
70	19871	10272
65	18039	11287
60	16968	12069
55	16334	12730
50	15964	13272
45	15768	13774

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:27DEG  
 Operators:lianghaizhu  
 Test Date:2024-07-30

Range: 0 - 180DEG  
 Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.364  
 Humidity:56%  
 Test Distance:6.500m [K=1.0000]  
 Remarks:

WEC AND CCEC

Test:U:120.9V I:0.3216A P:38.75W PF:0.9969 Freq:59.98Hz Lamp Flux:5866.48x1 lm		
NAME: ASD-LSF8-4A40WH	TYPE:	WEIGHT:
SPEC.: 40W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:1.2*0.09m	Shielding Angle:

<input type="checkbox"/> cc	80%	70%	50%	30%	10%	0
<input type="checkbox"/> w	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	0
<input type="checkbox"/> fc	20%	20%	20%	20%	20%	0
RCR	RCR:Room Cavity Ratio		Wall Exitance Coefficients (WEC)			
0.0						
1.0	.357 .203 .064	.347 .198 .063	.328 .188 .060	.311 .179 .058	.295 .171 .055	
2.0	.316 .173 .053	.308 .169 .052	.291 .162 .050	.276 .155 .048	.262 .148 .047	
3.0	.285 .152 .045	.277 .148 .045	.262 .142 .043	.248 .136 .042	.236 .130 .040	
4.0	.259 .134 .040	.252 .132 .039	.238 .126 .038	.226 .121 .037	.214 .116 .035	
5.0	.237 .121 .035	.230 .118 .034	.218 .114 .033	.207 .109 .032	.196 .105 .032	
6.0	.218 .109 .031	.212 .107 .031	.201 .103 .030	.191 .099 .029	.181 .096 .028	
7.0	.202 .100 .028	.196 .098 .028	.187 .094 .027	.177 .091 .026	.169 .088 .026	
8.0	.188 .092 .026	.183 .090 .025	.174 .087 .025	.165 .084 .024	.157 .081 .024	
9.0	.175 .085 .024	.171 .083 .023	.163 .080 .023	.155 .078 .022	.148 .075 .022	
10.0	.164 .079 .022	.160 .077 .022	.153 .075 .021	.146 .072 .021	.139 .070 .020	

<input type="checkbox"/> cc	80%	70%	50%	30%	10%	0
<input type="checkbox"/> w	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	0
<input type="checkbox"/> fc	20%	20%	20%	20%	20%	0
RCR	RCR:Room Cavity Ratio		Ceiling Cavity Exitance Coefficients (CCEC)			
0.0	.258 .258 .258	.221 .221 .221	.151 .151 .151	.087 .087 .087	.028 .028 .028	
1.0	.252 .224 .199	.216 .192 .171	.148 .132 .119	.085 .077 .069	.027 .025 .022	
2.0	.245 .201 .164	.209 .173 .142	.144 .120 .099	.083 .070 .058	.027 .023 .019	
3.0	.237 .184 .142	.203 .159 .123	.139 .110 .086	.080 .064 .051	.026 .021 .017	
4.0	.229 .171 .127	.196 .148 .110	.135 .103 .077	.078 .060 .046	.025 .020 .015	
5.0	.221 .161 .116	.190 .139 .101	.131 .097 .071	.076 .057 .042	.024 .019 .014	
6.0	.214 .153 .109	.184 .132 .095	.127 .093 .067	.074 .054 .040	.024 .018 .013	
7.0	.207 .146 .103	.178 .126 .090	.123 .089 .064	.071 .052 .038	.023 .017 .013	
8.0	.200 .140 .099	.172 .122 .086	.119 .085 .061	.069 .050 .036	.022 .017 .012	
9.0	.194 .135 .096	.167 .117 .083	.116 .083 .059	.067 .049 .035	.022 .016 .012	
10.0	.188 .131 .093	.162 .114 .081	.113 .080 .058	.066 .047 .034	.021 .016 .011	

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:27DEG  
 Operators:lianghaizhu  
 Test Date:2024-07-30

Range: 0 - 180DEG  
 Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.364  
 Humidity:56%  
 Test Distance:6.500m [K=1.0000]  
 Remarks:

## UGR(Unified Glare Rating) Table

Test:U:120.9V I:0.3216A P:38.75W PF:0.9969 Freq:59.98Hz Lamp Flux:5866.48x1 lm										
NAME: ASD-LSF8-4A40WH					TYPE:			WEIGHT:		
SPEC.: 40W-5000K					DIM.:			SERIAL No.:		
MFR.: ASD Lighting Corp.					SUR.:1.2*0.09m			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	22.1	23.5	22.4	23.9	24.2	20.9	22.4	21.3	22.7	23.1
3H	24.3	25.6	24.7	26.0	26.5	22.3	23.7	22.7	24.1	24.5
4H	25.5	26.8	26.0	27.2	27.7	22.9	24.1	23.3	24.5	25.0
6H	26.9	28.1	27.4	28.5	29.0	23.2	24.4	23.7	24.8	25.3
8H	27.7	28.8	28.1	29.3	29.7	23.3	24.4	23.7	24.9	25.4
12H	28.5	29.6	29.0	30.1	30.6	23.3	24.4	23.8	24.9	25.4
4H 2H	22.6	23.9	23.1	24.3	24.7	21.7	23.0	22.2	23.4	23.9
3H	25.1	26.2	25.6	26.7	27.1	23.4	24.5	23.9	25.0	25.5
4H	26.5	27.5	27.0	28.0	28.5	24.2	25.2	24.7	25.7	26.2
6H	28.0	29.0	28.6	29.5	30.0	24.7	25.6	25.2	26.1	26.7
8H	28.9	29.8	29.5	30.3	30.9	24.9	25.7	25.4	26.2	26.8
12H	29.9	30.7	30.5	31.3	31.9	25.0	25.7	25.5	26.3	26.9
8H 4H	26.8	27.7	27.4	28.2	28.8	24.9	25.7	25.4	26.3	26.8
6H	28.6	29.4	29.2	29.9	30.5	25.8	26.5	26.3	27.0	27.7
8H	29.7	30.4	30.3	30.9	31.6	26.1	26.8	26.7	27.3	28.0
12H	31.0	31.5	31.6	32.1	32.8	26.4	27.0	27.0	27.6	28.2
12H 4H	26.8	27.6	27.4	28.2	28.8	25.1	25.9	25.6	26.4	27.0
6H	28.8	29.4	29.3	30.0	30.6	26.1	26.8	26.7	27.4	28.0
8H	29.9	30.5	30.5	31.1	31.7	26.7	27.2	27.3	27.8	28.5
Variations with the observer position at spacings:										
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, 5866 lm Total Lamp Luminous Flux Corrected ( $8\log(F/F_0) = 6.1$ )

C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:27DEG  
Operators:lianghaizhu  
Test Date:2024-07-30

Range: 0 - 180DEG  
 Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.364  
Humidity:56%  
Test Distance:6.500m [K=1.0000]  
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.9V I:0.3216A P:38.75W PF:0.9969 Freq:59.98Hz Lamp Flux:5866.48x1 lm		
NAME: ASD-LSF8-4A40WH	TYPE:	WEIGHT:
SPEC.: 40W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:1.2*0.09m	Shielding Angle:

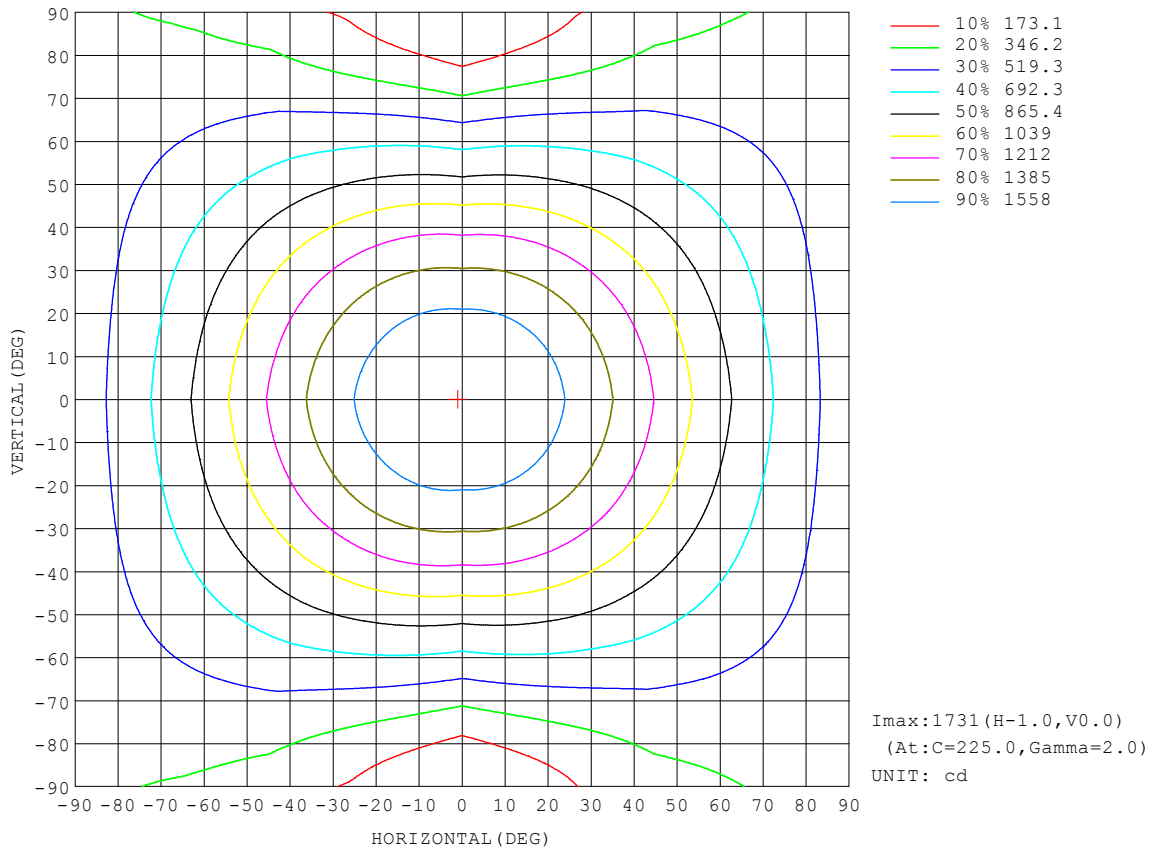
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	53	41	34	52	41	34	50	40	33	27
0.80	62	50	42	61	49	42	59	48	41	34
1.00	70	58	50	69	57	50	66	58	49	41
1.25	77	66	58	75	65	57	72	63	56	47
1.50	82	71	63	80	70	62	76	67	61	52
2.00	89	79	72	87	78	71	82	75	69	59
2.50	93	84	77	91	82	76	86	79	73	63
3.00	97	89	82	94	86	80	89	83	77	67
4.00	101	94	88	98	92	87	92	87	83	71
5.00	104	98	93	101	95	91	95	90	86	74
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:27DEG  
 Operators:lianghaizhu  
 Test Date:2024-07-30

Range: 0 - 180DEG  
 Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.364  
 Humidity:56%  
 Test Distance:6.500m [K=1.0000]  
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.9V I:0.3216A P:38.75W PF:0.9969 Freq:59.98Hz Lamp Flux:5866.48x1 lm		
NAME: ASD-LSF8-4A40WH	TYPE:	WEIGHT:
SPEC.: 40W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:1.2*0.09m	Shielding Angle:

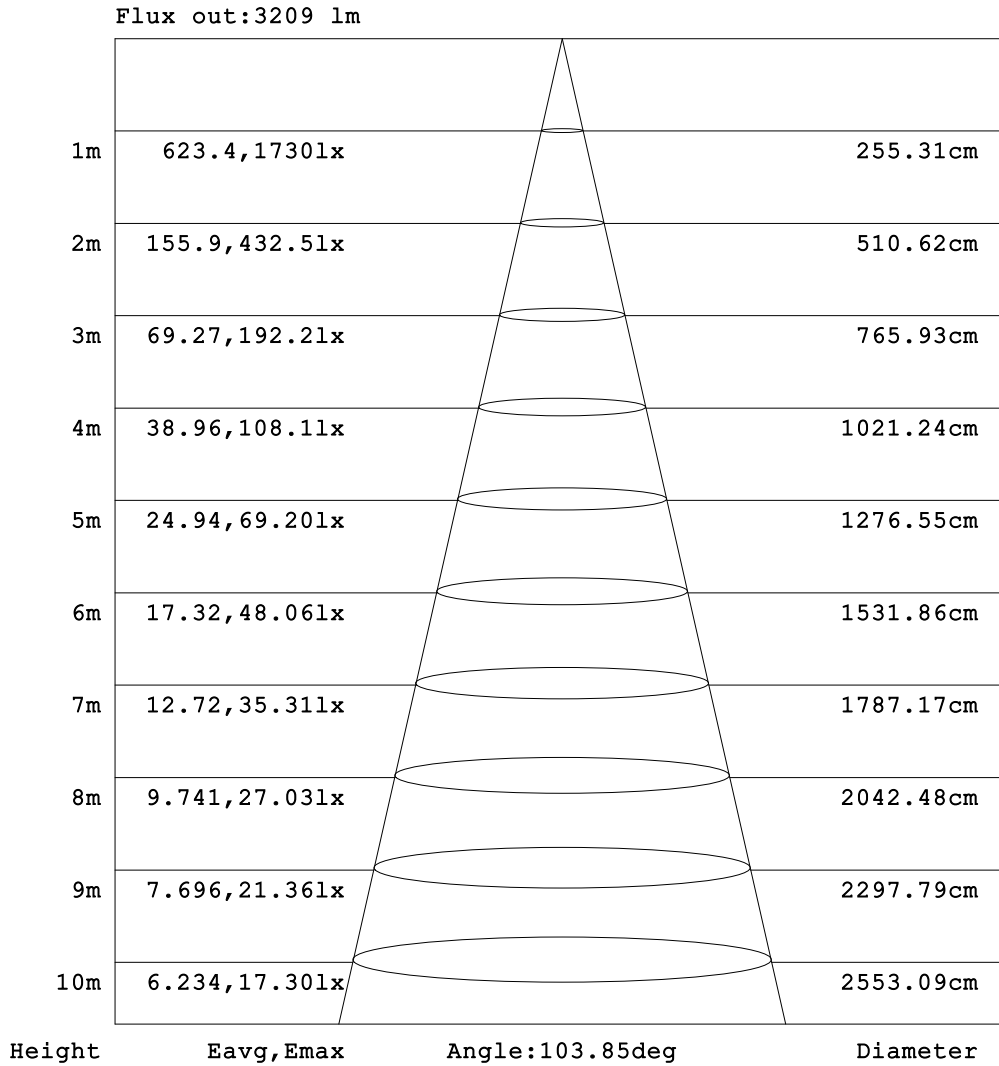


C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:27DEG  
 Operators:lianghaizhu  
 Test Date:2024-07-30

□ Range: 0 - 180DEG  
 □ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.364  
 Humidity:56%  
 Test Distance:6.500m [K=1.0000]  
 Remarks:

AAI Figure

Test:U:120.9V I:0.3216A P:38.75W PF:0.9969 Freq:59.98Hz Lamp Flux:5866.48x1 lm		
NAME: ASD-LSF8-4A40WH	TYPE:	WEIGHT:
SPEC.: 40W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:1.2*0.09m	Shielding Angle:

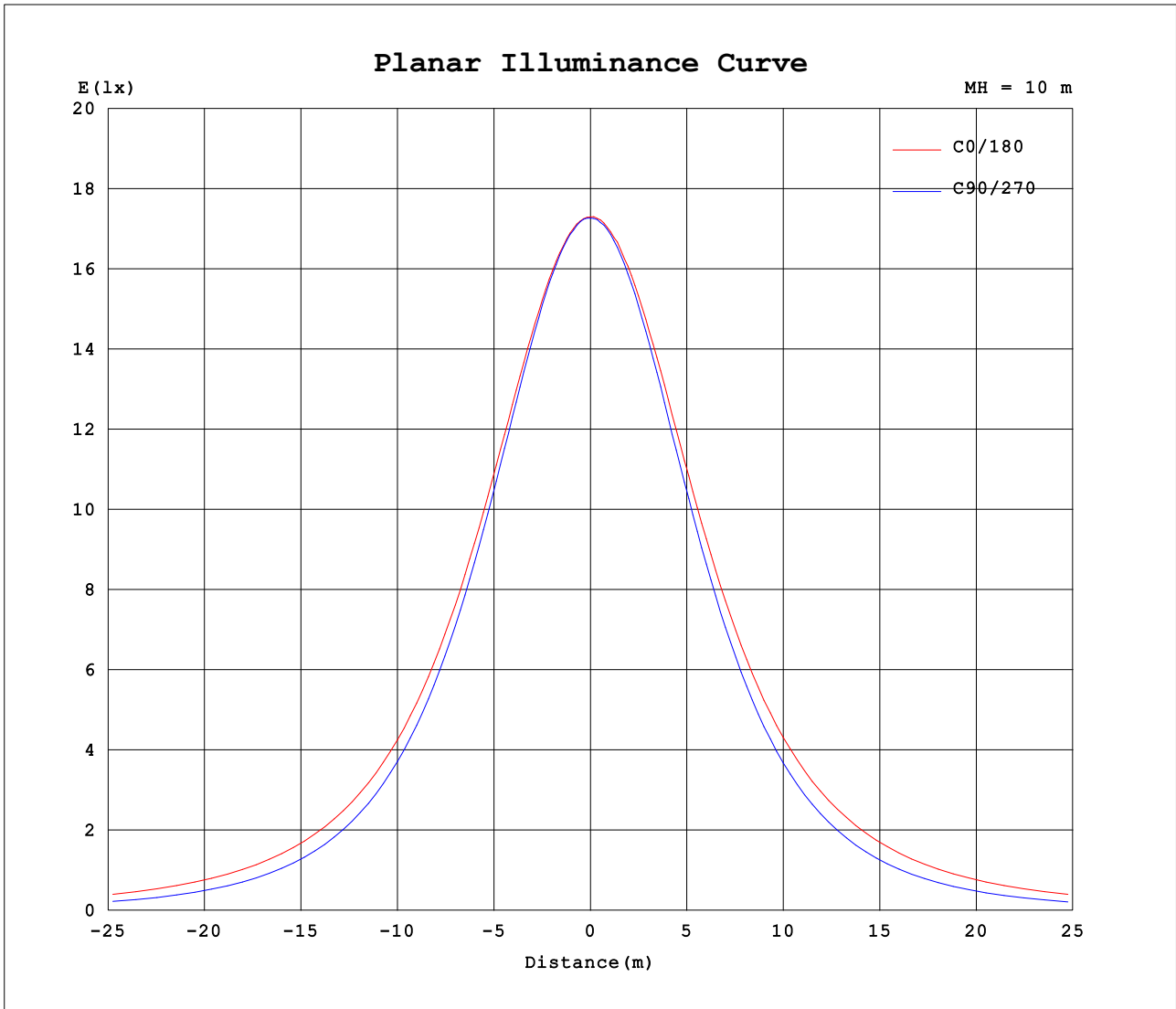


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:27DEG  
 Operators:lianghaizhu  
 Test Date:2024-07-30

Range: 0 - 180DEG  
 Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.364  
 Humidity:56%  
 Test Distance:6.500m [K=1.0000]  
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature: 27DEG  
Operators: lianghaizhu  
Test Date: 2024-07-30

Range: 0 - 180DEG  
 Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.364  
Humidity: 56%  
Test Distance: 6.500m [K=1.0000]  
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.9V I:0.3216A P:38.75W PF:0.9969 Freq:59.98Hz Lamp Flux:5866.48x1 lm		
NAME: ASD-LSF8-4A40WH	TYPE:	WEIGHT:
SPEC.: 40W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:1.2*0.09m	Shielding Angle:

Table--1

UNIT: cd

C (DEG) □ (DEG)	0	45	90	135	180	225	270	315										
0	1728	1728	1728	1728	1728	1728	1728	1728										
5	1719	1720	1718	1720	1722	1722	1720	1717										
10	1695	1690	1688	1696	1700	1697	1689	1689										
15	1656	1647	1641	1654	1668	1656	1641	1646										
20	1604	1590	1575	1599	1621	1597	1575	1589										
25	1543	1515	1495	1526	1558	1525	1491	1515										
30	1468	1430	1401	1442	1486	1441	1394	1429										
35	1385	1334	1293	1348	1405	1345	1287	1334										
40	1297	1230	1175	1246	1315	1238	1169	1230										
45	1203	1121	1053	1137	1220	1129	1043	1119										
50	1107	1009	922	1025	1121	1015	913	1006										
55	1011	897	789	911	1022	901	777	895										
60	915	787	652	801	924	789	639	785										
65	823	683	516	694	827	682	499	679										
70	733	584	380	593	733	580	362	581										
75	648	494	249	501	645	488	231	491										
80	569	414	132	416	562	404	115	411										
85	494	342	44.4	341	485	330	32.4	339										
90	425	279	14.8	261	391	244	11.1	273										
95	308	185	15.2	189	303	185	11.6	195										
100	260	145	15.7	142	253	137	12.3	150										
105	220	113	15.4	106	209	105	13.0	114										
110	183	101	14.6	92.2	171	89.7	12.9	104										
115	167	81.7	13.9	72.9	153	71.3	12.9	84.7										
120	138	67.6	13.2	58.7	123	57.8	12.9	69.8										
125	113	57.3	12.8	49.0	98.6	48.5	13.0	57.7										
130	92.2	47.6	12.7	42.9	79.5	42.6	13.2	48.0										
135	76.2	40.2	12.9	38.8	65.2	38.8	13.5	41.4										
140	64.2	35.1	13.9	35.7	55.1	35.7	14.5	37.3										
145	55.5	31.4	15.0	32.4	47.8	31.9	15.6	33.7										
150	49.0	28.5	16.6	29.7	40.8	29.9	17.2	30.6										
155	43.7	26.4	18.1	27.9	35.2	27.8	18.5	28.1										
160	39.0	25.8	19.7	25.8	31.5	26.0	19.9	27.3										
165	34.9	25.6	21.1	24.0	27.9	24.6	21.1	26.5										
170	31.2	25.3	22.2	22.0	24.6	22.0	22.2	26.1										
175	26.6	25.3	22.9	20.2	18.6	20.1	22.9	25.3										
180	19.8	23.1	23.3	23.6	19.8	23.1	23.3	23.6										

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:27DEG  
 Operators:lianghaizhu  
 Test Date:2024-07-30

□ Range: 0 - 180DEG  
 □ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.364  
 Humidity:56%  
 Test Distance:6.500m [K=1.0000]  
 Remarks: