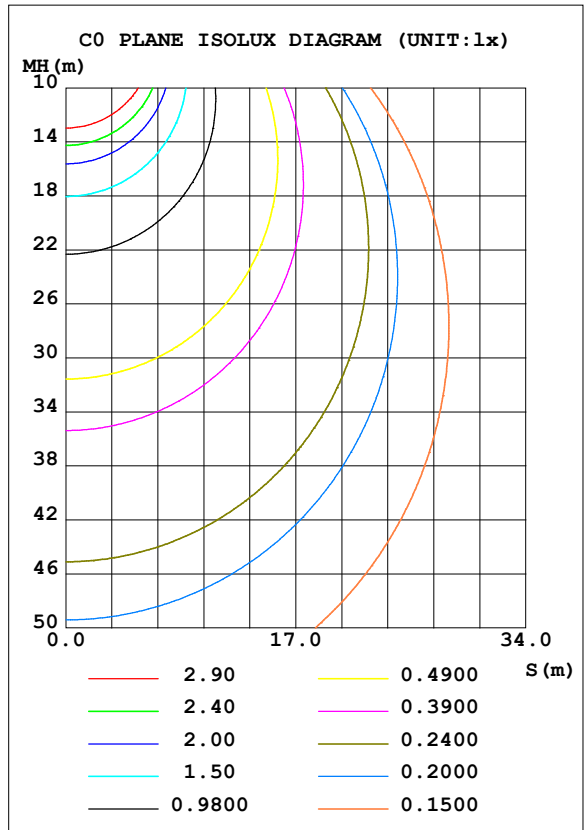
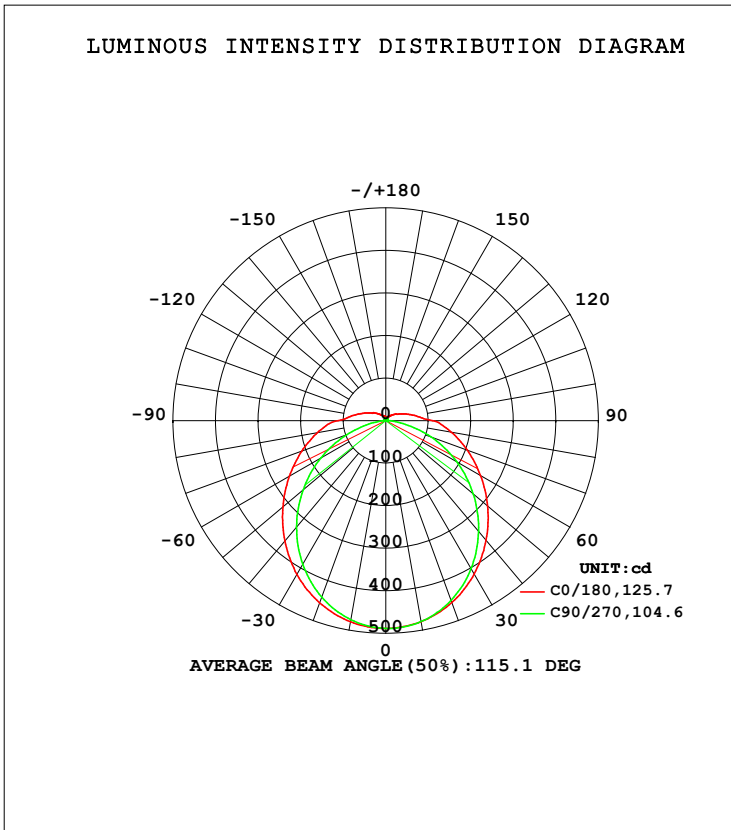


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:0.7370V I:0A P:0W PF:0 Freq:0Hz Lamp Flux:1659.1x1 lm		
NAME: ASD-LSF8-4A40WH-10EM	TYPE:	WEIGHT:
SPEC.: 10W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:1.2*0.09m	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	ASD-LSF8-4A40WH-10EM	I _{max} (cd)	488.4	S/MH (C0/180)	1.27
NOMINAL POWER (W)	40	LOR (%)	100.0	S/MH (C90/270)	1.20
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	1659.1	<input type="checkbox"/> UP, DN (C0-180)	4.3, 46.1
NOMINAL FLUX (lm)	1659.1	CIE CLASS	DIRECT	<input type="checkbox"/> UP, DN (C180-360)	4.6, 45.0
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: 2024-08-10

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	479.6	480.8	479.5	479.6	479.9	476.4	474.9	477.4	0- 10	46.14	46.14	2.78,2.78
20	454.9	454.4	449.5	452.3	455.5	446.3	441.1	448.0	10- 20	131.6	177.7	10.7,10.7
30	416.0	411.6	401.4	408.8	417.6	400.9	390.1	402.8	20- 30	198.1	375.8	22.7,22.7
40	366.8	356.2	339.5	353.2	369.3	344.1	326.4	345.7	30- 40	237.3	613.1	37,37
50	312.4	293.9	268.5	290.5	315.8	281.4	254.1	282.6	40- 50	246.4	859.6	51.8,51.8
60	256.9	230.5	192.1	227.1	261.6	218.9	176.9	219.2	50- 60	228.3	1088	65.6,65.6
70	204.1	171.8	113.9	168.9	210.1	162.3	98.35	160.9	60- 70	189.9	1278	77,77
80	156.4	120.6	41.31	118.7	163.0	114.5	29.61	111.6	70- 80	140.7	1418	85.5,85.5
90	110.4	78.13	3.236	75.72	112.8	66.71	4.242	73.02	80- 90	93.44	1512	91.1,91.1
100	70.14	43.13	3.107	43.05	75.93	41.45	4.490	45.65	90-100	55.85	1568	94.5,94.5
110	47.09	24.35	2.907	25.49	52.82	26.09	4.757	25.04	100-110	33.92	1602	96.5,96.5
120	30.59	17.11	2.815	18.86	35.74	19.26	4.292	15.83	110-120	21.84	1624	97.9,97.9
130	21.78	11.72	3.287	14.13	26.53	14.30	4.020	10.74	120-130	14.17	1638	98.7,98.7
140	15.09	8.707	4.051	11.88	18.52	11.83	4.118	8.330	130-140	9.052	1647	99.3,99.3
150	11.44	6.983	4.837	10.10	11.49	10.23	4.864	6.774	140-150	5.888	1653	99.6,99.6
160	8.816	6.158	5.727	9.104	11.08	9.222	5.722	6.079	150-160	3.741	1656	99.8,99.8
170	6.816	5.712	6.505	8.128	8.735	8.092	6.476	5.733	160-170	2.102	1658	100,100
180	5.502	6.804	6.892	6.889	5.469	6.799	6.889	6.875	170-180	0.6420	1659	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 737.05 lm

%lum = 44.4%

%lamp = 44.4%

Conical surface Flux(120deg): 1087.9 lm

%lum = 65.6%

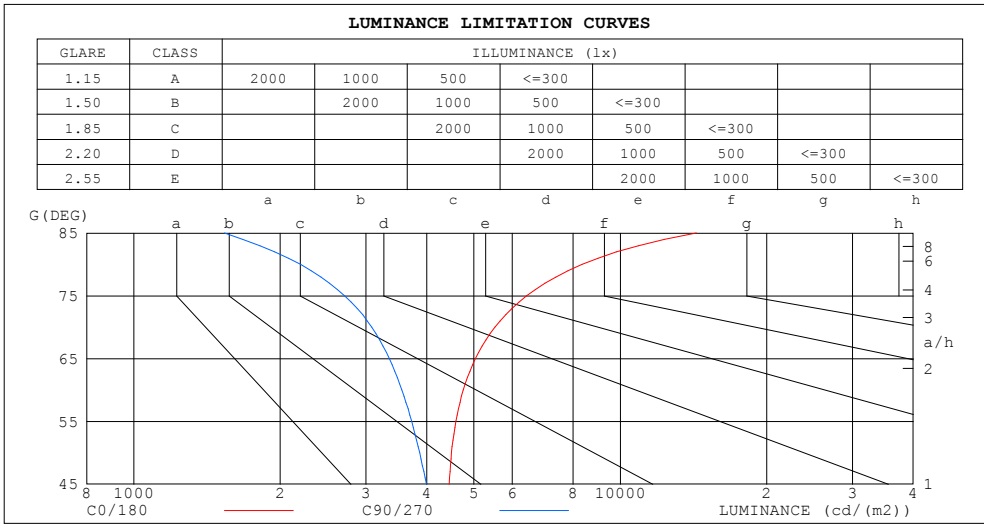
%lamp = 65.6%

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu
 Test Date:2024-08-10

□ 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:0.7370V I:0A P:0W PF:0 Freq:0Hz Lamp Flux:1659.1x1 lm		
NAME: ASD-LSF8-4A40WH-10EM	TYPE:	WEIGHT:
SPEC.: 10W-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	14334	1536
80	8340	2203
75	6422	2710
70	5525	3084
65	5040	3353
60	4756	3558
55	4593	3726
50	4499	3868
45	4452	3993

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu
 Test Date:2024-08-10

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:0.7370V I:0A P:0W PF:0 Freq:0Hz Lamp Flux:1659.1x1 lm		
NAME: ASD-LSF8-4A40WH-10EM	TYPE:	WEIGHT:
SPEC.: 10W-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 .033	.197 .105 .032	
6.0	.218 .109 .031	.212 .107 .031	.201 .103 .030	.191 .099 .029	.182 .096 .028	
7.0	.202 .100 .028	.197 .098 .028	.187 .094 .027	.177 .091 .026	.169 .088 .026	
8.0	.188 .092 .026	.183 .090 .025	.174 .087 .025	.166 .084 .024	.158 .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 .078 .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	.086 .086 .086	.028 .028 .028	
1.0	.252 .224 .199	.215 .192 .171	.147 .132 .118	.085 .076 .069	.027 .025 .022	
2.0	.244 .200 .164	.209 .173 .141	.143 .119 .099	.083 .069 .058	.027 .022 .019	
3.0	.236 .183 .141	.203 .158 .122	.139 .110 .086	.080 .064 .051	.026 .021 .017	
4.0	.229 .170 .126	.196 .147 .110	.135 .103 .077	.078 .060 .046	.025 .020 .015	
5.0	.221 .160 .116	.190 .139 .101	.131 .097 .071	.076 .057 .042	.024 .019 .014	
6.0	.213 .152 .108	.183 .132 .094	.127 .092 .067	.073 .054 .040	.024 .018 .013	
7.0	.206 .145 .103	.178 .126 .090	.123 .088 .063	.071 .052 .038	.023 .017 .012	
8.0	.200 .140 .098	.172 .121 .086	.119 .085 .061	.069 .050 .036	.022 .016 .012	
9.0	.194 .135 .095	.167 .117 .083	.116 .082 .059	.067 .049 .035	.022 .016 .012	
10.0	.188 .131 .093	.162 .113 .081	.112 .080 .057	.066 .047 .034	.021 .016 .011	

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu
 Test Date:2024-08-10

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:0.7370V I:0A P:0W PF:0 Freq:0Hz Lamp Flux:1659.1x1 lm										
NAME: ASD-LSF8-4A40WH-10EM					TYPE:			WEIGHT:		
SPEC.: 10W-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	17.7	19.2	18.1	19.5	19.9	16.8	18.2	17.2	18.6	19.0
3H	19.9	21.3	20.4	21.7	22.1	18.2	19.6	18.6	19.9	20.4
4H	21.1	22.4	21.6	22.8	23.3	18.8	20.0	19.2	20.5	20.9
6H	22.5	23.7	22.9	24.1	24.6	19.1	20.3	19.6	20.8	21.2
8H	23.2	24.3	23.7	24.8	25.3	19.2	20.4	19.7	20.8	21.3
12H	24.0	25.1	24.5	25.6	26.1	19.3	20.4	19.7	20.8	21.3
4H 2H	18.3	19.6	18.8	20.0	20.4	17.6	18.9	18.0	19.3	19.7
3H	20.7	21.9	21.2	22.3	22.8	19.3	20.4	19.8	20.9	21.4
4H	22.1	23.1	22.6	23.6	24.1	20.1	21.1	20.6	21.6	22.1
6H	23.6	24.5	24.2	25.1	25.6	20.6	21.5	21.2	22.0	22.6
8H	24.5	25.3	25.0	25.9	26.4	20.8	21.7	21.3	22.2	22.8
12H	25.5	26.2	26.0	26.8	27.4	20.9	21.7	21.5	22.2	22.8
8H 4H	22.5	23.3	23.0	23.8	24.4	20.8	21.6	21.3	22.1	22.7
6H	24.2	25.0	24.8	25.5	26.1	21.7	22.4	22.2	22.9	23.6
8H	25.3	25.9	25.9	26.5	27.1	22.0	22.7	22.6	23.3	23.9
12H	26.5	27.1	27.1	27.7	28.3	22.3	22.9	22.9	23.5	24.1
12H 4H	22.5	23.3	23.1	23.8	24.4	21.0	21.7	21.5	22.3	22.9
6H	24.4	25.0	25.0	25.6	26.2	22.0	22.7	22.6	23.3	23.9
8H	25.5	26.1	26.1	26.7	27.3	22.6	23.1	23.2	23.7	24.4
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, 1659 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 1.8)

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu
 Test Date:2024-08-10

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:0.7370V I:0A P:0W PF:0 Freq:0Hz Lamp Flux:1659.1x1 lm		
NAME: ASD-LSF8-4A40WH-10EM	TYPE:	WEIGHT:
SPEC.: 10W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:1.2*0.09m	Shielding Angle:

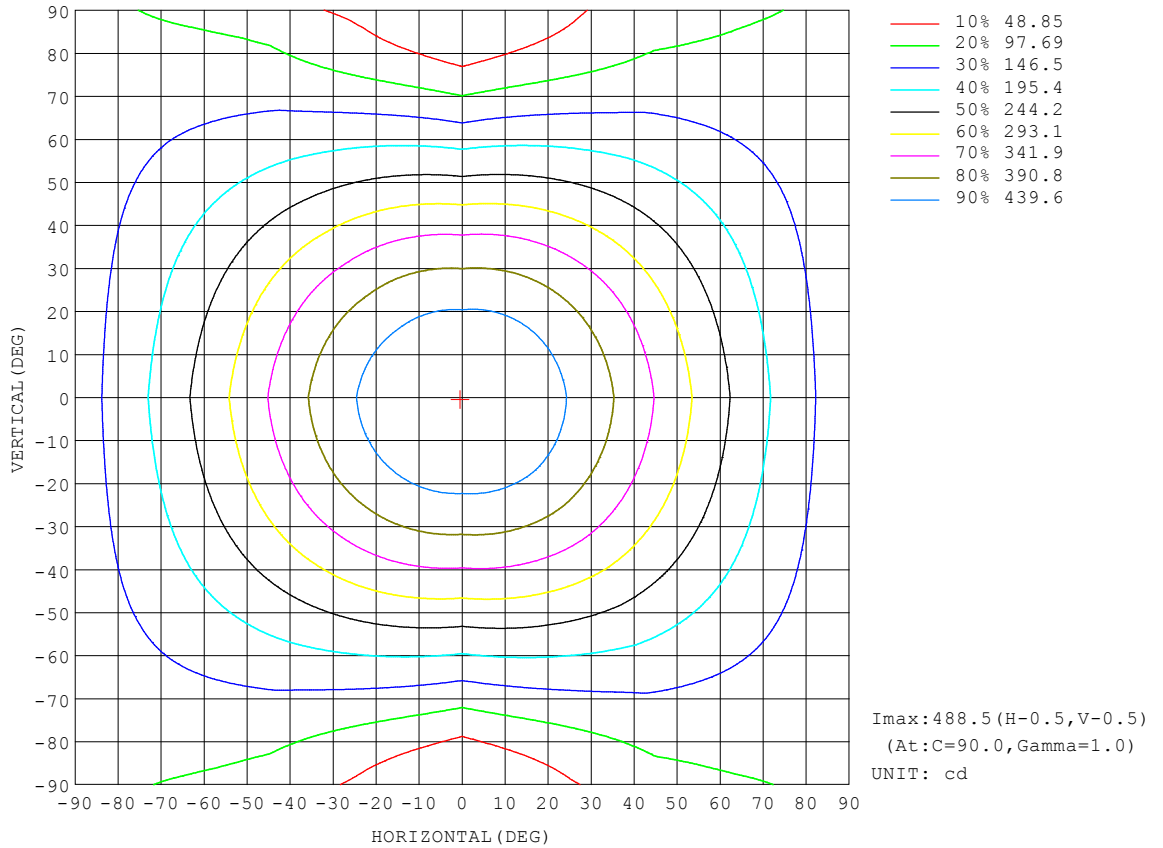
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	53	41	34	52	41	34	50	40	33	27
0.80	62	50	42	61	49	42	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:2024-08-10

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:0.7370V I:0A P:0W PF:0 Freq:0Hz Lamp Flux:1659.1x1 lm		
NAME: ASD-LSF8-4A40WH-10EM	TYPE:	WEIGHT:
SPEC.: 10W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:1.2*0.09m	Shielding Angle:

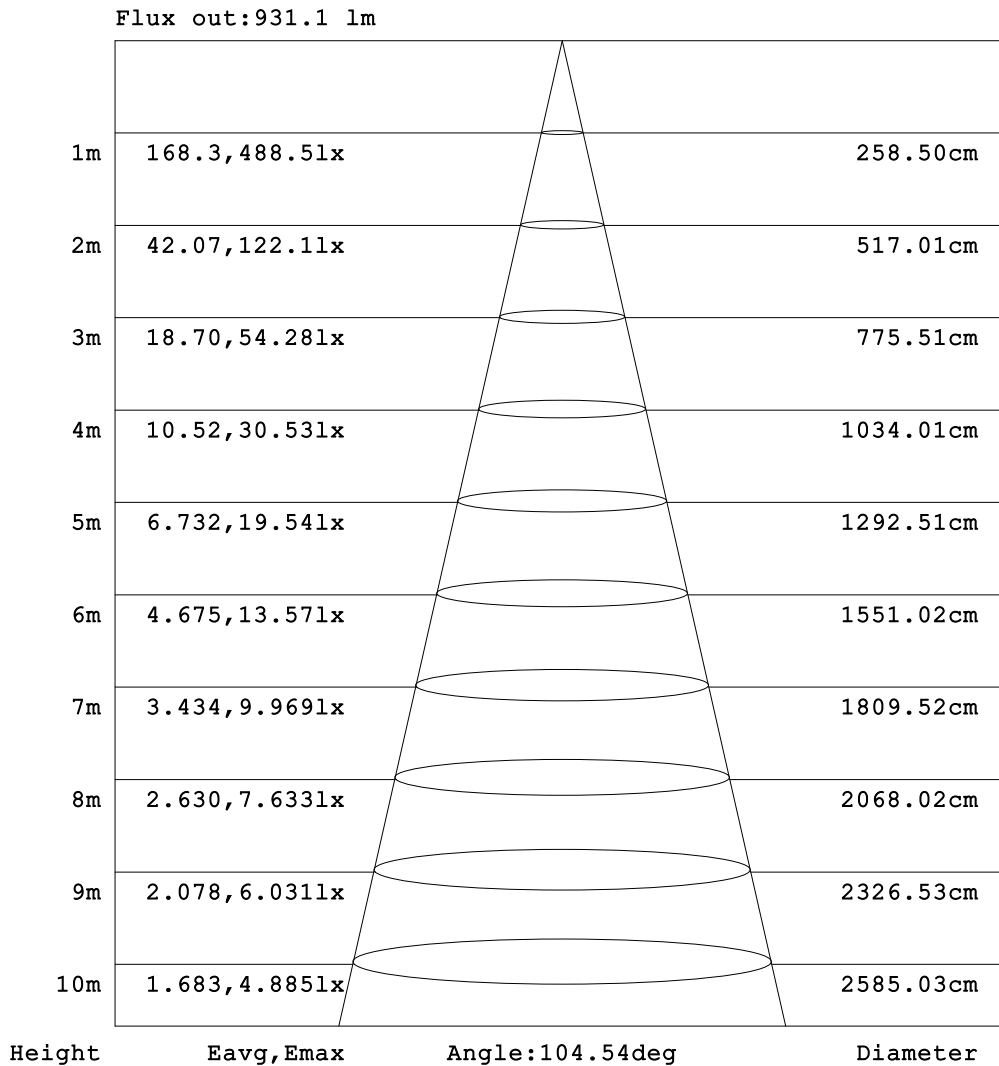


C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu
 Test Date:2024-08-10

□ 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:0.7370V I:0A P:0W PF:0 Freq:0Hz Lamp Flux:1659.1x1 lm		
NAME: ASD-LSF8-4A40WH-10EM	TYPE:	WEIGHT:
SPEC.: 10W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:1.2*0.09m	Shielding Angle:

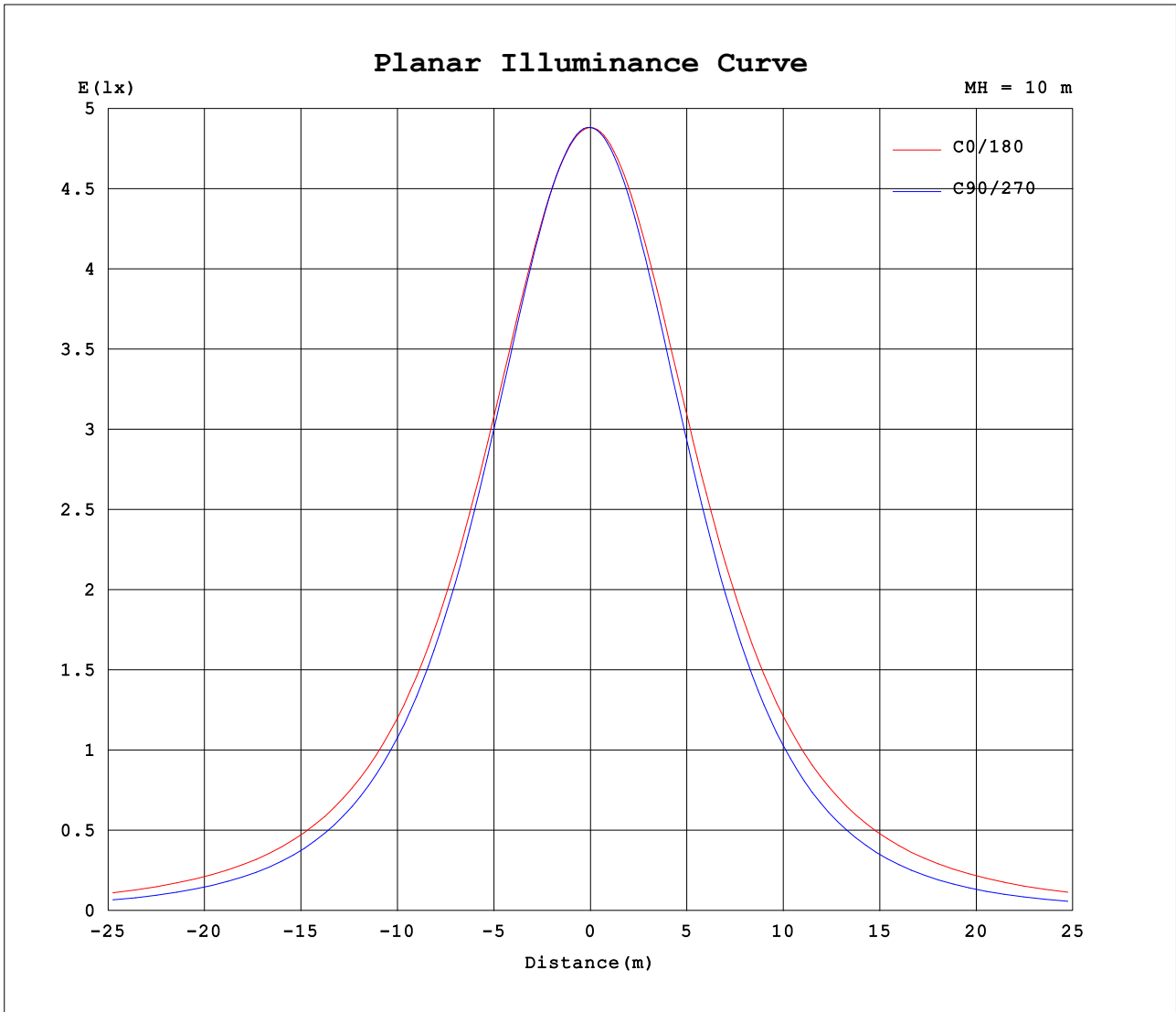


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu
 Test Date:2024-08-10

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: 2024-08-10

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:0.7370V I:0A P:0W PF:0 Freq:0Hz Lamp Flux:1659.1x1 lm		
NAME: ASD-LSF8-4A40WH-10EM	TYPE:	WEIGHT:
SPEC.: 10W-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	488	488	488	488	488	488	488	488										
5	486	487	487	486	486	485	484	485										
10	480	481	479	480	480	476	475	477										
15	469	470	467	468	469	464	460	465										
20	455	454	449	452	455	446	441	448										
25	437	435	427	432	438	425	418	427										
30	416	412	401	409	418	401	390	403										
35	392	385	372	382	394	374	360	375										
40	367	356	340	353	369	344	326	346										
45	340	326	305	322	343	313	291	314										
50	312	294	269	291	316	281	254	283										
55	285	262	231	258	289	250	216	251										
60	257	231	192	227	262	219	177	219										
65	230	200	153	197	235	190	137	189										
70	204	172	114	169	210	162	98.4	161										
75	180	145	75.8	142	186	137	61.6	135										
80	156	121	41.3	119	163	115	29.6	112										
85	135	99.1	14.5	97.5	142	94.6	8.14	91.0										
90	110	78.1	3.24	75.7	113	66.7	4.24	73.0										
95	83.9	55.2	3.16	55.2	89.7	53.8	4.33	58.2										
100	70.1	43.1	3.11	43.1	75.9	41.4	4.49	45.7										
105	57.9	28.3	3.00	28.6	63.6	29.0	4.64	32.0										
110	47.1	24.4	2.91	25.5	52.8	26.1	4.76	25.0										
115	38.0	21.3	2.79	22.7	43.5	23.3	4.50	19.9										
120	30.6	17.1	2.81	18.9	35.7	19.3	4.29	15.8										
125	27.1	14.3	2.99	16.1	32.4	16.3	4.12	12.9										
130	21.8	11.7	3.29	14.1	26.5	14.3	4.02	10.7										
135	17.9	9.97	3.68	12.8	21.9	13.0	3.93	9.15										
140	15.1	8.71	4.05	11.9	18.5	11.8	4.12	8.33										
145	13.1	7.76	4.41	10.7	16.1	10.9	4.44	7.47										
150	11.4	6.98	4.84	10.1	11.5	10.2	4.86	6.77										
155	10.0	6.38	5.28	9.64	12.2	9.72	5.29	6.24										
160	8.82	6.16	5.73	9.10	11.1	9.22	5.72	6.08										
165	7.77	5.94	6.15	8.50	9.95	8.60	6.13	5.95										
170	6.82	5.71	6.50	8.13	8.73	8.09	6.48	5.73										
175	5.53	5.46	6.75	7.54	6.56	7.47	6.74	5.47										
180	5.50	6.80	6.89	6.89	5.47	6.80	6.89	6.88										

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu
 Test Date:2024-08-10

□ 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: