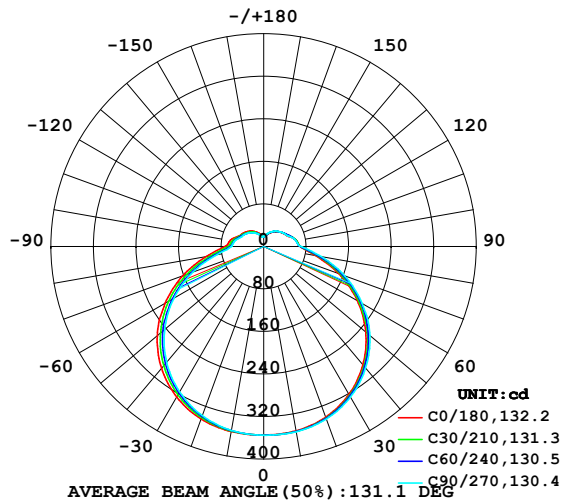


LUMINAIRE PHOTOMETRIC TEST REPORT

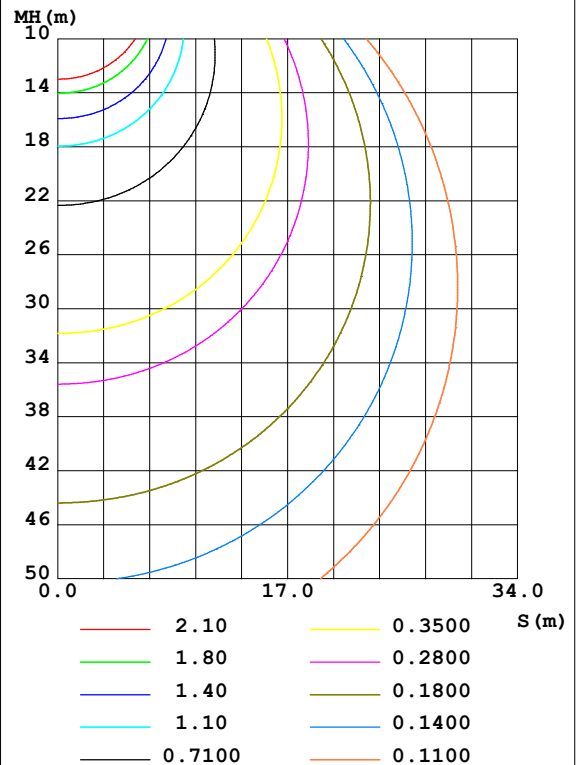
Test:U:120.6V I:0.1440A P:17.10W PF:0.9810 Freq:60.00Hz Lamp Flux:1596.31x1 lm		
NAME: DMS11-17W-95C-MVUD 整灯 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:11寸	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 93.35 lm/W			
MODEL		I _{max} (cd)	355.6	S/MH (C0/180)	1.37
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	1.32
RATED VOLTAGE (V)		TOTAL FLUX (lm)	1596.3	η UP, DN (C0-180)	9.4, 41.7
NOMINAL FLUX (lm)	1596.31	CIE CLASS	SEMI-D.	η UP, DN (C180-360)	9.0, 39.9
LAMPS INSIDE	1	η up (%)	18.4	CIBSE SHR NOM	1.50
TEST VOLTAGE (V)		η down (%)	81.6	CIBSE SHR MAX	1.55

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2024-04-08

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 7.750m [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	352.1	353.2	353.7	354.6	353.4	352.1	351.2	351.7	0- 10	33.79	33.79	2.12,2.12
20	341.6	343.7	345.2	347.3	345.2	341.2	338.6	339.4	10- 20	98.66	132.4	8.3,8.3
30	321.0	324.1	326.8	330.2	327.2	320.6	316.2	317.3	20- 30	154.2	286.6	18,18
40	290.4	294.6	298.5	302.7	299.0	290.1	284.1	285.3	30- 40	193.6	480.3	30.1,30.1
50	250.5	256.0	260.9	265.7	261.4	250.5	243.4	244.5	40- 50	212.0	692.3	43.4,43.4
60	203.1	208.7	213.7	219.7	214.0	202.6	195.1	195.6	50- 60	206.7	899.0	56.3,56.3
70	150.5	156.5	162.0	168.0	162.2	149.8	141.6	142.3	60- 70	179.0	1078	67.5,67.5
80	98.74	104.2	109.7	114.5	109.9	97.02	88.92	91.74	70- 80	134.6	1213	76,76
90	68.82	69.31	70.64	73.73	73.03	64.92	60.87	65.80	80- 90	89.96	1303	81.6,81.6
100	63.31	62.53	61.92	63.08	64.49	58.76	56.22	60.61	90-100	69.96	1373	86,86
110	53.51	55.08	53.93	55.82	53.96	51.22	48.23	53.32	100-110	61.02	1434	89.8,89.8
120	46.44	47.74	46.80	48.66	47.59	45.06	43.68	46.78	110-120	49.37	1483	92.9,92.9
130	41.90	42.44	42.58	43.26	43.06	40.08	39.31	41.41	120-130	39.75	1523	95.4,95.4
140	36.71	37.40	37.73	38.27	37.90	35.21	34.11	36.14	130-140	30.46	1553	97.3,97.3
150	31.25	32.15	32.44	32.91	32.22	30.07	28.88	30.50	140-150	21.47	1575	98.6,98.6
160	25.88	26.47	27.21	26.72	26.70	24.35	23.73	24.37	150-160	13.26	1588	99.5,99.5
170	20.78	20.80	21.61	20.49	21.25	18.97	18.74	18.47	160-170	6.543	1594	99.9,99.9
180	20.46	19.25	19.31	19.21	20.44	19.25	19.31	19.20	170-180	1.846	1596	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 585.42 lm

%lum = 36.7%

%lamp = 36.7%

Conical surface Flux(120deg): 899.04 lm

%lum = 56.3%

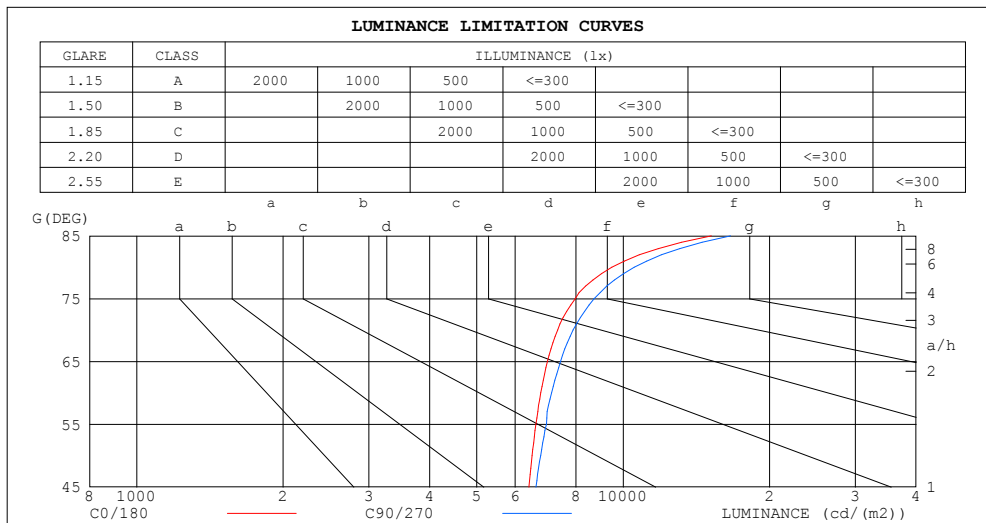
%lamp = 56.3%

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-04-08

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.750m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.6V I:0.1440A P:17.10W PF:0.9810 Freq:60.00Hz Lamp Flux:1596.31x1 lm		
NAME: DMS11-17W-95C-MVUD 整灯 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:11寸	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-04-08

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.750m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:120.6V I:0.1440A P:17.10W PF:0.9810 Freq:60.00Hz Lamp Flux:1596.31x1 lm					
NAME: DMS11-17W-95C-MVUD 整灯 4000K			TYPE:		WEIGHT:
SPEC.:			DIM.:		SERIAL No.:
MFR.: 革星			SUR.:11寸		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	.361	.205	.065	.348	.199	.063	.324	.186	.059	.302	.174	.056	.282	.163	.053	
2.0	.319	.175	.054	.308	.170	.052	.286	.159	.049	.266	.149	.047	.248	.140	.044	
3.0	.287	.153	.046	.277	.148	.045	.257	.139	.042	.239	.131	.040	.222	.123	.038	
4.0	.260	.135	.040	.251	.131	.039	.233	.124	.037	.217	.116	.035	.201	.109	.033	
5.0	.238	.121	.035	.229	.118	.034	.213	.111	.033	.198	.104	.031	.184	.098	.030	
6.0	.218	.110	.031	.211	.106	.031	.196	.100	.029	.182	.095	.028	.169	.089	.026	
7.0	.202	.100	.028	.195	.097	.028	.181	.092	.026	.169	.087	.025	.157	.082	.024	
8.0	.188	.092	.026	.181	.089	.025	.169	.084	.024	.157	.080	.023	.146	.075	.022	
9.0	.175	.085	.024	.169	.082	.023	.158	.078	.022	.147	.074	.021	.137	.070	.020	
10.0	.164	.079	.022	.159	.077	.021	.148	.073	.020	.138	.069	.020	.129	.065	.019	

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	.331	.331	.331	.283	.283	.283	.193	.193	.193	.111	.111	.111	.035	.035	.035	
1.0	.325	.297	.272	.278	.255	.234	.190	.175	.162	.110	.101	.094	.035	.033	.030	
2.0	.318	.274	.237	.273	.236	.205	.187	.163	.143	.108	.095	.084	.035	.031	.027	
3.0	.311	.257	.215	.266	.222	.186	.183	.154	.131	.106	.090	.077	.034	.029	.025	
4.0	.303	.245	.200	.260	.212	.174	.179	.147	.123	.104	.086	.073	.033	.028	.024	
5.0	.296	.235	.190	.254	.203	.166	.175	.142	.117	.101	.083	.069	.033	.027	.023	
6.0	.288	.227	.183	.248	.197	.159	.171	.138	.113	.099	.081	.067	.032	.026	.022	
7.0	.282	.221	.178	.242	.191	.155	.167	.134	.110	.097	.079	.065	.031	.026	.022	
8.0	.275	.215	.174	.237	.186	.151	.164	.131	.107	.095	.077	.064	.031	.025	.021	
9.0	.269	.210	.171	.232	.182	.149	.160	.128	.106	.093	.076	.063	.030	.025	.021	
10.0	.263	.206	.168	.227	.179	.147	.157	.126	.104	.092	.074	.062	.030	.024	.021	

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2024-04-08

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:7.750m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.6V I:0.1440A P:17.10W PF:0.9810 Freq:60.00Hz Lamp Flux:1596.31x1 lm											
NAME: DMS11-17W-95C-MVUD 整灯 4000K						TYPE:		WEIGHT:			
SPEC.:						DIM.:		SERIAL No.:			
MFR.: 革星						SUR.:11寸		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	16.8	18.1	17.3	18.7	19.2	17.0	18.3	17.5	18.8	19.4	
	3H	18.8	20.0	19.3	20.6	21.2	19.1	20.3	19.6	20.8	21.5
	4H	19.8	20.9	20.3	21.5	22.1	20.1	21.3	20.7	21.8	22.5
	6H	20.7	21.8	21.3	22.4	23.1	21.2	22.3	21.7	22.8	23.5
	8H	21.3	22.3	21.8	22.9	23.6	21.7	22.8	22.3	23.4	24.0
	12H	21.8	22.9	22.4	23.5	24.1	22.3	23.4	22.9	23.9	24.6
4H	2H	17.5	18.7	18.1	19.3	19.9	17.7	18.8	18.2	19.4	20.0
	3H	19.7	20.7	20.3	21.3	22.0	19.9	21.0	20.5	21.6	22.2
	4H	20.8	21.8	21.5	22.4	23.1	21.1	22.1	21.8	22.7	23.4
	6H	22.0	22.8	22.6	23.5	24.2	22.4	23.2	23.0	23.8	24.6
	8H	22.6	23.4	23.3	24.0	24.8	23.0	23.8	23.7	24.4	25.2
	12H	23.3	24.0	24.0	24.7	25.5	23.7	24.5	24.4	25.1	25.9
8H	4H	21.3	22.1	22.0	22.7	23.5	21.5	22.3	22.2	23.0	23.7
	6H	22.7	23.4	23.4	24.0	24.9	23.0	23.7	23.7	24.4	25.2
	8H	23.5	24.1	24.2	24.8	25.6	23.8	24.4	24.5	25.1	26.0
	12H	24.4	24.9	25.1	25.6	26.5	24.8	25.3	25.5	26.0	26.9
12H	4H	21.4	22.1	22.1	22.8	23.6	21.6	22.3	22.3	23.0	23.8
	6H	22.9	23.5	23.6	24.2	25.0	23.2	23.8	23.9	24.5	25.3
	8H	23.8	24.3	24.5	25.0	25.9	24.1	24.6	24.8	25.3	26.2
Variations with the observer position at spacings:											
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1					
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3					
2.0H	+ 0.2 / - 0.4					+ 0.2 / - 0.3					

CIE Pub.117, 1596 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 1.6$)

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2024-04-08

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:7.750m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.6V I:0.1440A P:17.10W PF:0.9810 Freq:60.00Hz Lamp Flux:1596.31x1 lm		
NAME: DMS11-17W-95C-MVUD 整灯 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:11寸	Shielding Angle:

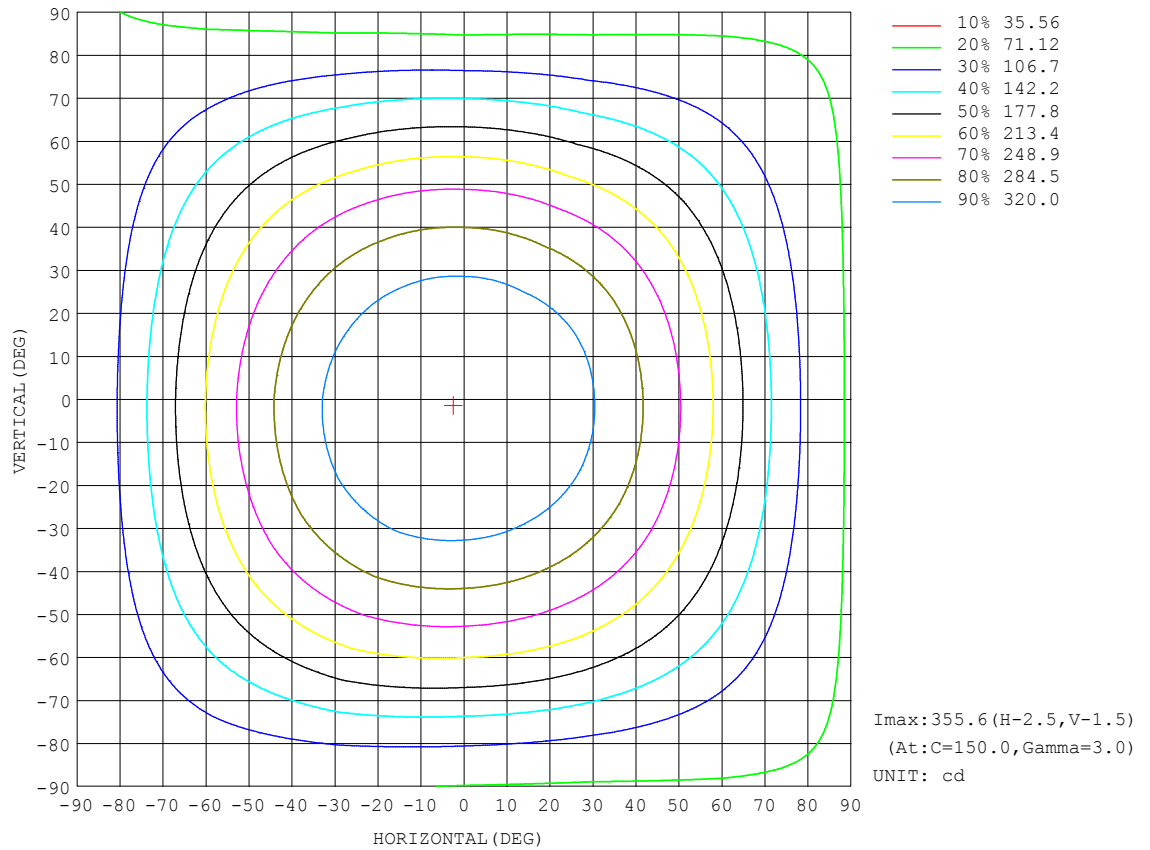
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	49	36	29	47	36	29	45	35	28	22
0.80	58	45	37	56	44	37	53	43	36	28
1.00	66	53	45	64	52	45	60	52	43	34
1.25	73	61	52	70	59	52	66	57	50	40
1.50	78	66	58	75	65	57	70	61	55	44
2.00	85	75	67	82	73	65	76	68	62	51
2.50	90	80	72	86	78	71	80	73	67	54
3.00	93	85	78	90	82	75	83	77	71	58
4.00	98	91	84	94	87	82	87	81	77	62
5.00	101	94	89	97	91	86	89	85	81	65
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2024-04-08

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 7.750m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:120.6V I:0.1440A P:17.10W PF:0.9810 Freq:60.00Hz Lamp Flux:1596.31x1 lm		
NAME: DMS11-17W-95C-MVUD 整灯 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:11寸	Shielding Angle:

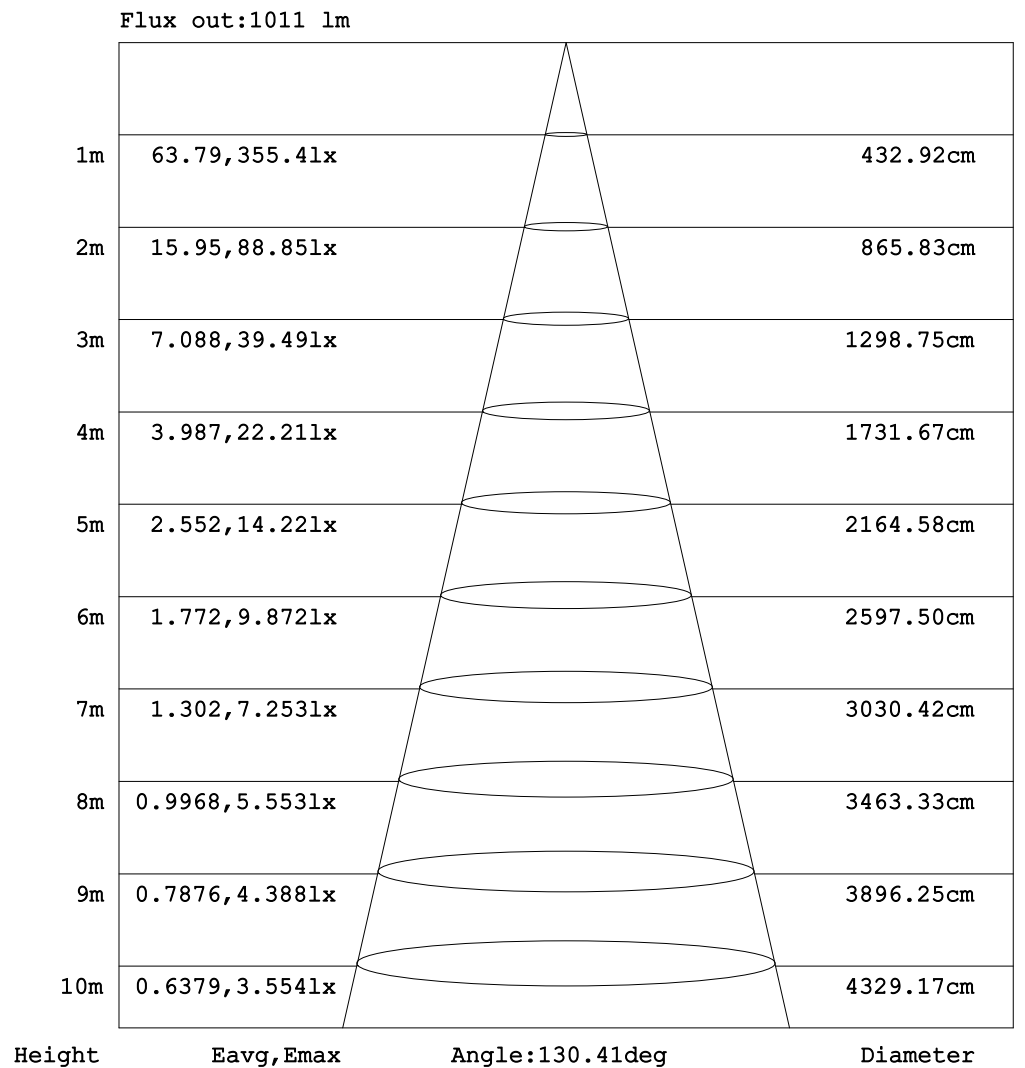


C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-04-08

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.750m [K=1.0000]
Remarks:

AAI Figure

Test:U:120.6V I:0.1440A P:17.10W PF:0.9810 Freq:60.00Hz Lamp Flux:1596.31x1 lm		
NAME: DMS11-17W-95C-MVUD 整灯 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:11寸	Shielding Angle:

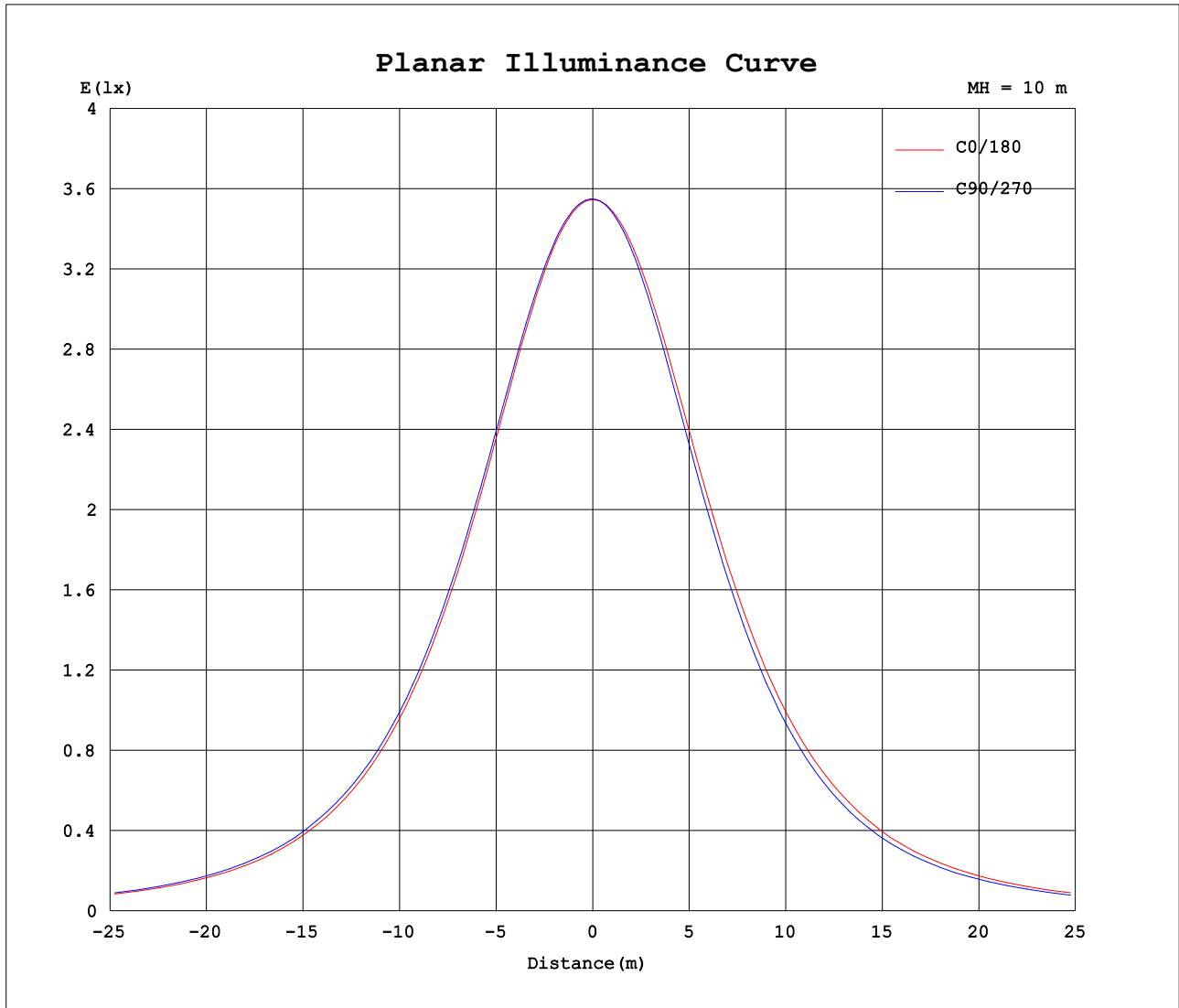


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2024-04-08

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 7.750m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2024-04-08

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 7.750m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.6V I:0.1440A P:17.10W PF:0.9810 Freq:60.00Hz Lamp Flux:1596.31x1 lm		
NAME: DMS11-17W-95C-MVUD 整灯 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:11寸	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330							
0	355	355	355	355	355	355	355	355	355	355	355	355							
5	354	355	355	355	355	356	354	354	354	354	354	355							
10	352	353	353	354	355	355	353	352	352	351	351	352							
15	348	349	350	351	352	352	350	349	347	346	346	348							
20	342	343	344	345	347	347	345	342	340	339	338	341							
25	333	335	336	337	340	340	337	334	331	329	328	331							
30	321	324	325	327	330	330	327	322	319	316	315	319							
35	307	310	311	314	318	318	314	309	304	301	300	305							
40	290	294	295	298	303	303	299	293	288	284	283	288							
45	272	275	277	281	286	285	281	274	269	265	263	268							
50	251	255	257	261	266	265	261	253	248	243	242	247							
55	228	231	235	239	245	244	240	231	223	220	217	224							
60	203	207	211	214	221	218	214	207	199	195	192	199							
65	177	181	185	188	196	193	189	181	173	169	166	173							
70	150	154	159	162	169	167	162	154	146	142	139	146							
75	124	128	132	135	142	140	135	127	119	114	112	119							
80	98.7	103	106	110	115	114	110	101	93.4	88.9	89.1	94.4							
85	79.4	82.0	83.6	86.9	91.0	91.3	87.7	79.7	73.4	70.0	72.0	76.3							
90	68.8	69.5	69.2	70.6	72.9	74.6	73.0	67.3	62.5	60.9	64.4	67.2							
95	65.6	65.3	64.1	64.1	64.3	67.1	67.2	63.3	59.5	58.4	62.1	64.3							
100	63.3	63.1	62.0	61.9	61.6	64.6	64.5	60.4	57.1	56.2	59.3	61.9							
105	59.4	59.6	58.9	58.7	58.2	61.5	60.0	56.4	53.9	52.6	55.9	58.5							
110	53.5	55.1	55.0	53.9	54.1	57.6	54.0	52.2	50.3	48.2	52.3	54.3							
115	48.4	51.0	51.1	49.1	50.3	53.6	49.6	48.7	47.0	45.4	49.2	50.4							
120	46.4	47.7	47.8	46.8	47.4	49.9	47.6	45.8	44.3	43.7	46.4	47.1							
125	44.3	45.0	45.0	44.8	44.9	46.8	45.4	43.2	41.8	41.6	43.8	44.3							
130	41.9	42.4	42.4	42.6	42.6	43.9	43.1	40.8	39.4	39.3	41.2	41.6							
135	39.4	39.9	39.9	40.2	40.3	41.2	40.5	38.4	37.0	36.7	38.6	39.0							
140	36.7	37.3	37.5	37.7	37.9	38.6	37.9	36.0	34.4	34.1	36.0	36.3							
145	34.0	34.8	34.9	35.2	35.5	35.9	35.1	33.5	31.9	31.4	33.3	33.6							
150	31.3	32.1	32.2	32.4	32.9	32.9	32.2	30.7	29.4	28.9	30.3	30.7							
155	28.5	29.3	29.3	29.8	30.1	29.6	29.4	27.8	26.7	26.2	27.3	27.6							
160	25.9	26.5	26.4	27.2	27.1	26.4	26.7	24.9	23.8	23.7	24.1	24.7							
165	23.4	23.7	23.5	24.7	23.6	23.3	24.0	22.0	21.1	21.3	21.1	21.6							
170	20.8	20.9	20.7	21.6	20.8	20.2	21.2	19.2	18.7	18.7	18.3	18.7							
175	20.2	20.4	19.5	19.9	19.6	19.1	20.3	18.7	18.6	18.3	18.2	18.9							
180	20.5	19.5	19.0	19.3	19.2	19.2	20.4	19.5	19.0	19.3	19.2	19.2							

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-04-08

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.750m [K=1.0000]
Remarks: