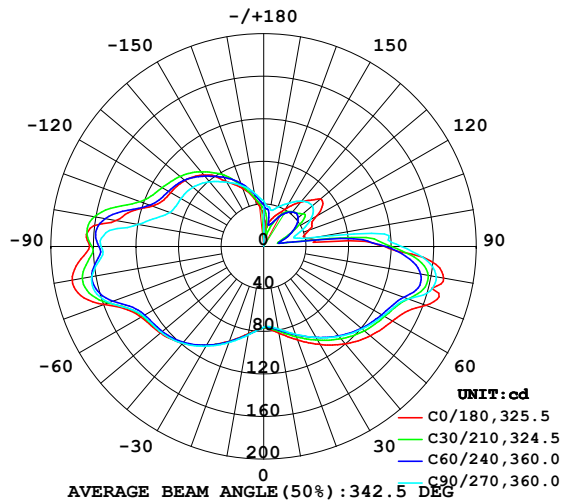


LUMINAIRE PHOTOMETRIC TEST REPORT

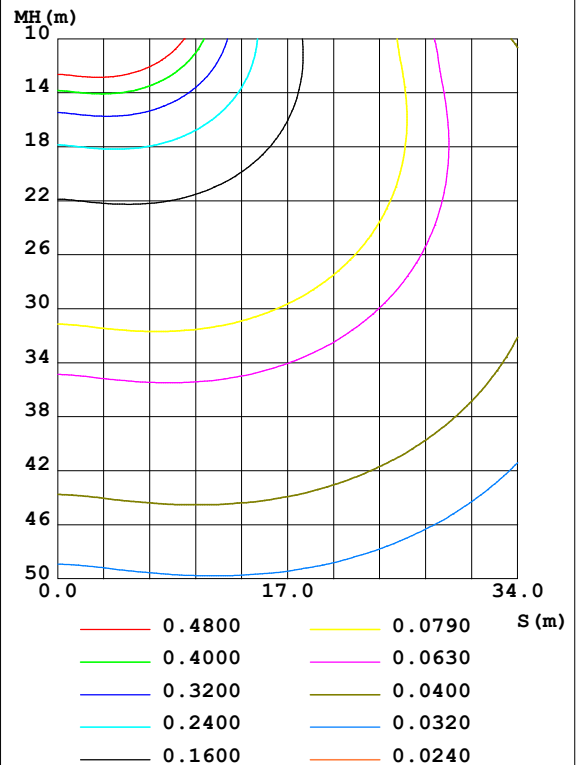
Test:U:120.6V I:0.1490A P:17.70W PF:0.9830 Freq:60.00Hz Lamp Flux:1344.69x1 lm		
NAME: RDFP-8-17W-95C-MVUD-BL 整灯 5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 75.97 lm/W			
MODEL		I _{max} (cd)	186.0	S/MH (C0/180)	2.20
NOMINAL POWER(W)		LOR(%)	100.0	S/MH (C90/270)	2.21
RATED VOLTAGE(V)		TOTAL FLUX(lm)	1344.7	η UP,DN(C0-180)	13.7,30.7
NOMINAL FLUX(lm)	1344.69	CIE CLASS	SEMI-D.	η UP,DN(C180-360)	23.2,32.3
LAMPS INSIDE	1	η up (%)	37.0	CIBSE SHR NOM	2.00
TEST VOLTAGE(V)		η down (%)	63.0	CIBSE SHR MAX	2.00

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:2025-02-12

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	82.79	80.35	78.88	79.95	83.36	84.08	84.57	83.98	0- 10	7.585	7.585	0.56,0.56
20	93.67	89.40	87.92	90.61	94.80	95.31	96.16	96.24	10- 20	24.93	32.52	2.42,2.42
30	106.5	100.3	98.97	102.9	107.5	107.3	108.3	109.7	20- 30	46.01	78.52	5.84,5.84
40	119.6	111.6	110.4	114.8	118.8	117.9	118.9	122.4	30- 40	69.93	148.5	11,11
50	130.9	121.7	120.9	124.5	126.7	125.0	125.8	132.1	40- 50	94.29	242.7	18.1,18.1
60	140.1	129.9	130.2	131.9	133.2	130.4	130.9	139.3	50- 60	116.2	358.9	26.7,26.7
70	162.2	142.3	144.7	149.7	159.9	153.2	154.5	169.0	60- 70	140.3	499.2	37.1,37.1
80	171.8	153.5	164.8	176.9	182.8	168.7	164.0	177.2	70- 80	175.2	674.4	50.2,50.2
90	114.2	117.2	129.4	155.3	163.7	158.3	152.8	155.9	80- 90	173.0	847.5	63,63
100	43.60	22.27	50.39	124.0	141.1	156.5	119.8	105.2	90-100	139.3	986.7	73.4,73.4
110	45.43	19.15	33.07	64.53	111.6	118.9	94.08	70.79	100-110	84.32	1071	79.6,79.6
120	57.79	34.69	51.26	64.75	101.4	107.1	89.98	74.40	110-120	69.04	1140	84.8,84.8
130	69.83	45.11	59.73	70.37	96.67	99.93	86.89	77.94	120-130	66.59	1207	89.7,89.7
140	54.77	42.43	55.71	69.61	87.87	89.14	79.42	74.88	130-140	56.17	1263	93.9,93.9
150	40.68	35.16	47.02	62.78	70.78	76.62	69.83	66.75	140-150	40.64	1303	96.9,96.9
160	30.17	22.47	39.48	53.97	58.17	62.22	61.02	57.47	150-160	25.07	1329	98.8,98.8
170	19.20	18.90	36.17	44.98	44.30	47.83	51.26	48.35	160-170	12.44	1341	99.7,99.7
180	29.45	37.42	42.74	44.03	29.40	37.44	42.70	44.04	170-180	3.716	1345	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 192.65 lm

%lum = 14.3%

%lamp = 14.3%

Conical surface Flux(120deg): 358.93 lm

%lum = 26.7%

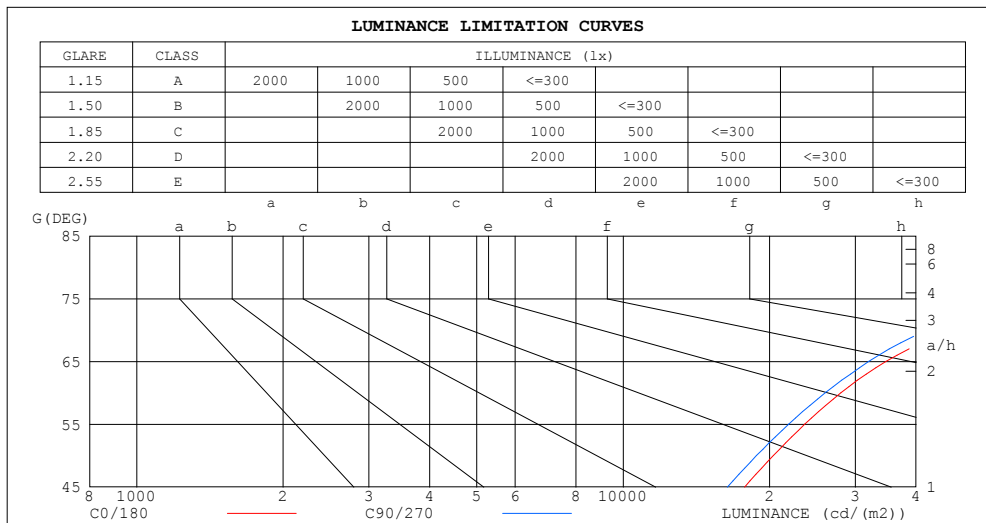
%lamp = 26.7%

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-02-12

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:0.1490A P:17.70W PF:0.9830 Freq:60.00Hz Lamp Flux:1344.69x1 lm		
NAME: RDFF-8-17W-95C-MVUD-BL 整灯 5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	180501	176723
80	98931	94878
75	65863	62611
70	47413	42315
65	34693	31994
60	28030	26036
55	23627	21889
50	20361	18809
45	17767	16382

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-02-12

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:0.1490A P:17.70W PF:0.9830 Freq:60.00Hz Lamp Flux:1344.69x1 lm					
NAME: RDFP-8-17W-95C-MVUD-BL 整灯 5000K			TYPE:		WEIGHT:
SPEC.:			DIM.:		SERIAL No.:
MFR.: 革星			SUR.:4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	.465	.264	.084	.446	.255	.081	.411	.236	.075	.379	.219	.070	.350	.203	.065	
2.0	.379	.208	.064	.362	.200	.061	.330	.184	.057	.301	.169	.053	.274	.155	.049	
3.0	.326	.173	.052	.310	.166	.050	.281	.152	.046	.254	.139	.043	.229	.127	.039	
4.0	.287	.149	.044	.273	.143	.042	.246	.130	.039	.221	.119	.036	.198	.108	.033	
5.0	.256	.131	.038	.244	.125	.036	.219	.114	.034	.196	.104	.031	.175	.094	.028	
6.0	.232	.116	.033	.220	.111	.032	.198	.101	.030	.177	.092	.027	.157	.083	.025	
7.0	.212	.105	.030	.201	.100	.029	.181	.091	.026	.161	.083	.024	.143	.074	.022	
8.0	.195	.095	.027	.185	.091	.026	.166	.083	.024	.148	.075	.022	.131	.067	.020	
9.0	.181	.088	.024	.172	.084	.023	.154	.076	.022	.137	.069	.020	.121	.062	.018	
10.0	.168	.081	.022	.160	.077	.022	.143	.070	.020	.128	.063	.018	.113	.057	.016	

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	.472	.472	.472	.404	.404	.404	.275	.275	.275	.158	.158	.158	.051	.051	.051	
1.0	.475	.439	.406	.407	.377	.350	.278	.259	.242	.160	.150	.141	.051	.048	.045	
2.0	.470	.417	.373	.402	.359	.323	.276	.249	.225	.159	.145	.132	.051	.047	.043	
3.0	.463	.402	.354	.397	.347	.307	.272	.241	.215	.157	.141	.127	.051	.046	.042	
4.0	.455	.391	.341	.390	.338	.297	.268	.235	.209	.155	.138	.124	.050	.045	.041	
5.0	.447	.381	.333	.384	.330	.290	.264	.231	.205	.153	.135	.121	.049	.044	.040	
6.0	.439	.374	.327	.377	.324	.285	.260	.227	.202	.151	.133	.120	.049	.044	.040	
7.0	.432	.368	.323	.371	.319	.281	.257	.223	.199	.149	.132	.119	.048	.043	.039	
8.0	.425	.362	.319	.366	.314	.279	.253	.221	.198	.147	.130	.118	.048	.043	.039	
9.0	.418	.358	.317	.360	.311	.276	.250	.218	.196	.145	.129	.117	.047	.042	.039	
10.0	.412	.354	.315	.355	.307	.275	.247	.216	.195	.144	.128	.116	.047	.042	.039	

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-02-12

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:0.1490A P:17.70W PF:0.9830 Freq:60.00Hz Lamp Flux:1344.69x1 lm											
NAME: RDFP-8-17W-95C-MVUD-BL 整灯 5000K						TYPE:			WEIGHT:		
SPEC.:						DIM.:			SERIAL No.:		
MFR.: 革星						SUR.:4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	20.4	21.7	21.2	22.5	23.4	20.1	21.4	20.8	22.1	23.1	
	3H	24.2	25.4	25.0	26.2	27.2	23.7	24.9	24.5	25.7	26.7
	4H	26.4	27.5	27.2	28.3	29.3	26.0	27.1	26.8	27.9	28.9
	6H	28.7	29.8	29.5	30.6	31.6	28.4	29.5	29.2	30.3	31.3
	8H	30.0	31.0	30.8	31.8	32.9	29.6	30.7	30.5	31.5	32.5
	12H	31.2	32.2	32.1	33.1	34.1	30.9	31.9	31.8	32.8	33.8
4H	2H	21.4	22.5	22.2	23.4	24.4	21.2	22.3	22.0	23.1	24.1
	3H	25.3	26.3	26.1	27.1	28.2	25.0	25.9	25.8	26.8	27.8
	4H	27.6	28.5	28.5	29.4	30.5	27.3	28.2	28.1	29.1	30.1
	6H	30.1	30.9	31.0	31.8	32.9	29.8	30.6	30.7	31.5	32.6
	8H	31.4	32.2	32.3	33.1	34.2	31.1	31.9	32.0	32.8	33.9
	12H	32.8	33.5	33.7	34.4	35.5	32.5	33.2	33.4	34.1	35.2
8H	4H	28.4	29.1	29.2	30.0	31.1	28.1	28.9	29.0	29.8	30.9
	6H	31.1	31.7	31.9	32.6	33.8	30.8	31.4	31.7	32.4	33.5
	8H	32.5	33.1	33.4	34.0	35.2	32.2	32.8	33.1	33.7	34.9
	12H	34.1	34.6	35.0	35.6	36.7	33.8	34.3	34.7	35.3	36.4
12H	4H	28.6	29.3	29.4	30.2	31.3	28.4	29.1	29.2	30.0	31.1
	6H	31.3	31.9	32.2	32.9	34.0	31.1	31.7	32.0	32.6	33.8
	8H	32.9	33.4	33.8	34.4	35.5	32.6	33.2	33.6	34.1	35.3
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 / - 0.2					
2.0H	+ 0.2 / - 0.3					+ 0.3 / - 0.4					

CIE Pub.117, 1345 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 1.0$)

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-02-12

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:0.1490A P:17.70W PF:0.9830 Freq:60.00Hz Lamp Flux:1344.69x1 lm		
NAME: RDFP-8-17W-95C-MVUD-BL 整灯 5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:

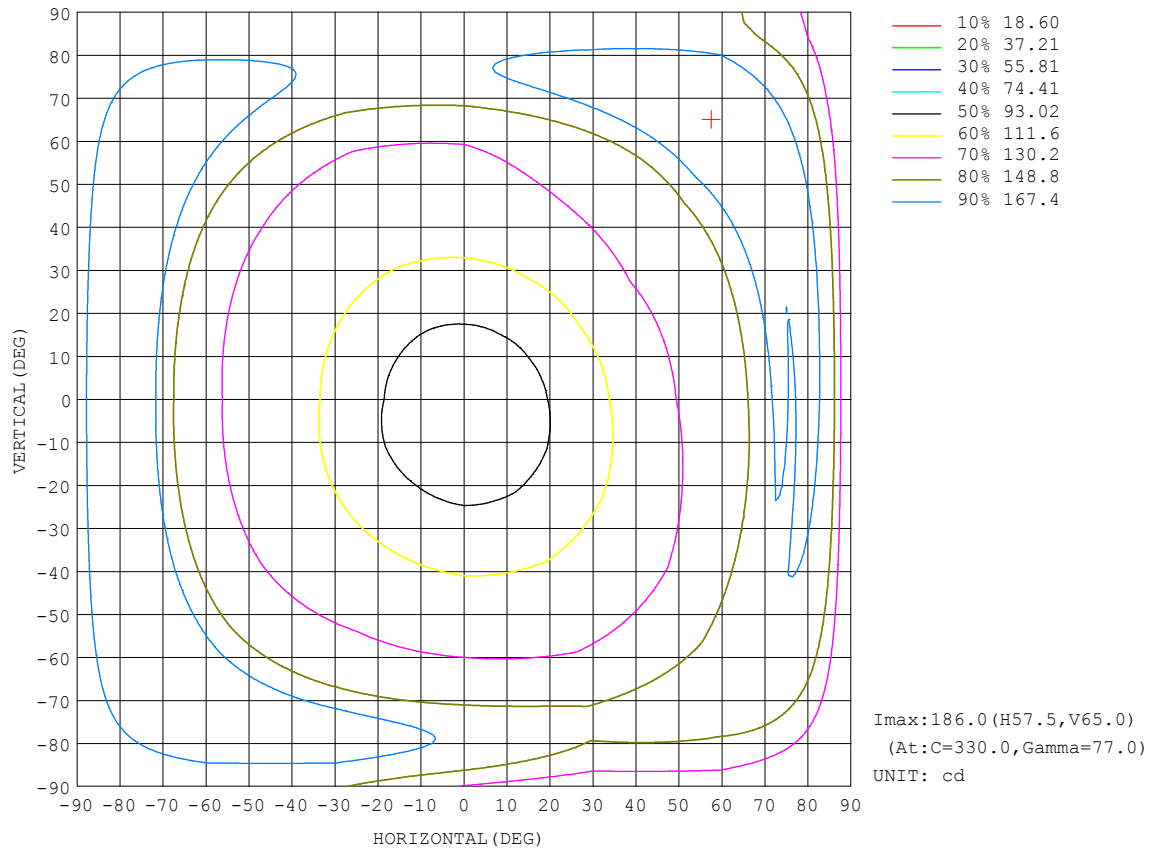
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	37	24	17	36	23	16	33	22	15	8
0.80	46	31	23	43	30	22	39	28	20	11
1.00	53	38	28	50	36	27	45	36	25	15
1.25	59	45	35	56	43	33	50	39	31	18
1.50	65	50	40	61	48	38	54	43	35	21
2.00	72	59	49	68	56	46	60	50	42	26
2.50	78	65	55	73	61	52	64	54	47	29
3.00	82	70	61	77	66	57	67	58	51	33
4.00	87	77	68	82	72	65	71	64	58	37
5.00	91	82	74	85	77	70	74	68	62	40
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: 2025-02-12

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:0.1490A P:17.70W PF:0.9830 Freq:60.00Hz Lamp Flux:1344.69x1 lm		
NAME: RDFF-8-17W-95C-MVUD-BL 整灯 5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:

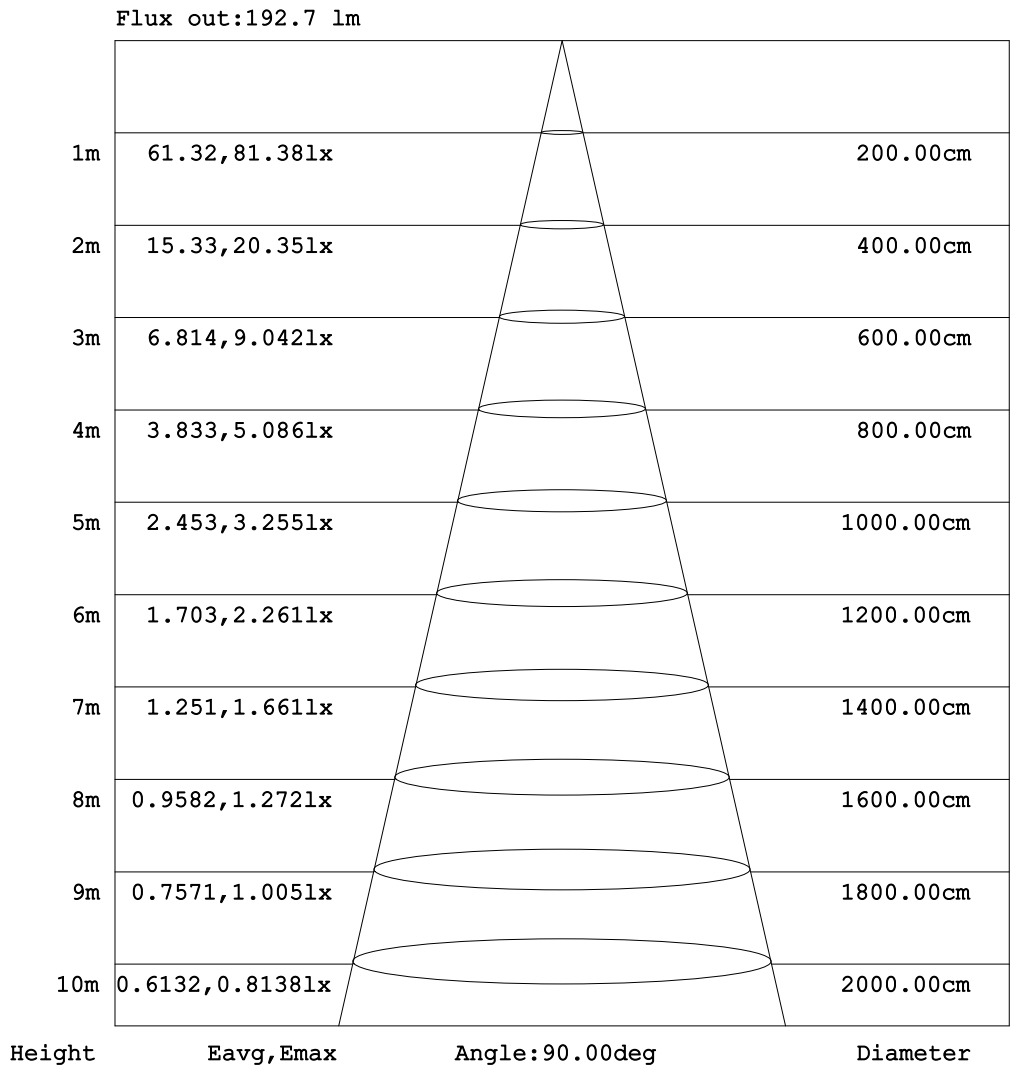


C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-02-12

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:0.1490A P:17.70W PF:0.9830 Freq:60.00Hz Lamp Flux:1344.69x1 lm		
NAME: RDFP-8-17W-95C-MVUD-BL 整灯 5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:

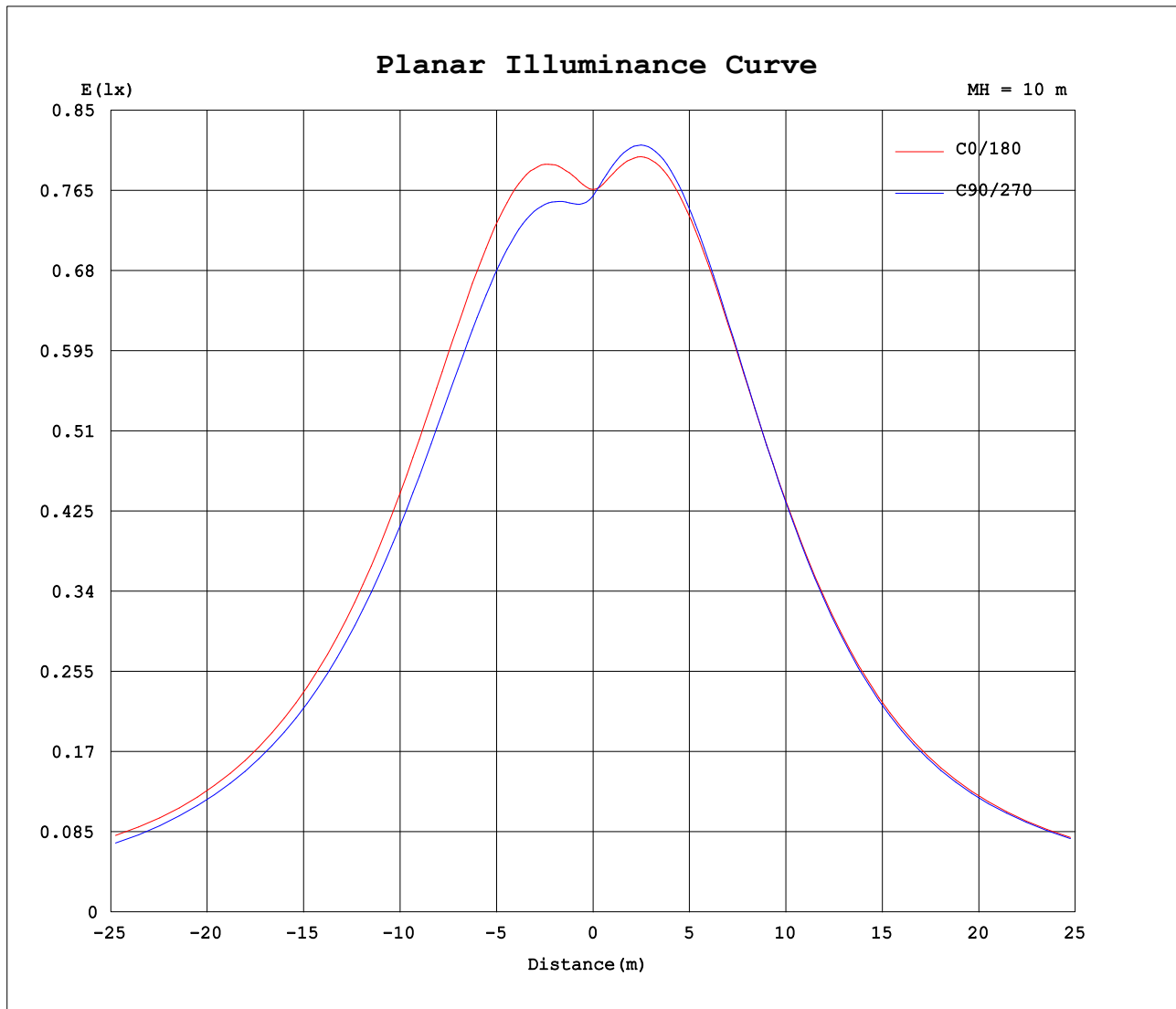


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-02-12

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: 2025-02-12

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:0.1490A P:17.70W PF:0.9830 Freq:60.00Hz Lamp Flux:1344.69x1 lm		
NAME: RDFP-8-17W-95C-MVUD-BL 整灯 5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	76.6	76.6	76.3	75.9	75.6	75.4	76.6	76.6	76.3	75.9	75.6	75.4						
5	78.7	77.7	76.8	75.9	75.9	76.4	78.8	79.4	79.5	79.6	79.3	78.6						
10	82.8	81.0	79.7	78.9	79.5	80.4	83.4	84.0	84.2	84.6	84.4	83.6						
15	87.9	85.4	83.7	83.0	84.3	85.6	88.8	89.4	89.5	90.2	90.3	89.4						
20	93.7	90.4	88.4	87.9	89.7	91.5	94.8	95.3	95.3	96.2	96.7	95.8						
25	100.0	96.0	93.5	93.3	95.5	97.8	101	101	101	102	103	103						
30	107	102	98.9	99.0	102	104	107	107	107	108	110	110						
35	113	108	104	105	108	110	113	113	113	114	116	117						
40	120	113	110	110	114	116	119	118	118	119	122	123						
45	126	119	115	116	119	121	123	122	122	123	126	129						
50	131	124	120	121	124	125	127	126	124	126	130	134						
55	136	128	124	126	128	129	130	128	127	128	133	138						
60	140	132	128	130	132	132	133	132	129	131	136	142						
65	147	136	133	135	137	137	141	139	136	139	145	152						
70	162	145	140	145	148	151	160	156	151	155	164	174						
75	170	156	151	162	169	172	178	170	162	164	174	185						
80	172	157	150	165	176	178	183	173	164	164	172	182						
85	157	146	138	154	168	173	175	166	158	155	161	167						
90	114	120	115	129	151	160	164	162	155	153	157	155						
95	46.9	96.7	85.1	118	143	157	166	167	159	149	145	149						
100	43.6	21.8	22.7	50.4	120	128	141	162	151	120	109	102						
105	39.2	13.7	15.7	31.2	76.4	90.0	129	144	132	105	83.2	75.7						
110	45.4	17.4	20.9	33.1	60.0	69.0	112	124	114	94.1	73.0	68.5						
115	50.0	25.4	27.3	43.0	58.9	64.6	104	115	107	90.9	73.2	69.8						
120	57.8	36.0	33.4	51.3	62.7	66.8	101	111	104	90.0	75.5	73.3						
125	67.7	46.8	38.7	57.0	66.5	70.0	99.4	107	101	89.0	77.4	76.3						
130	69.8	48.0	42.2	59.7	68.6	72.2	96.7	103	97.2	86.9	78.2	77.7						
135	61.7	44.3	43.9	58.7	68.7	72.9	93.1	97.8	92.3	83.6	77.4	77.2						
140	54.8	42.7	42.2	55.7	67.1	72.1	87.9	91.8	86.4	79.4	75.1	74.6						
145	47.8	40.3	39.1	51.6	64.0	69.6	81.4	85.1	80.6	74.6	71.7	70.6						
150	40.7	35.9	34.5	47.0	59.9	65.6	70.8	78.2	75.0	69.8	67.6	65.9						
155	34.7	28.8	28.7	43.2	55.4	61.3	64.3	69.9	69.5	65.5	63.3	61.1						
160	30.2	21.0	23.9	39.5	51.0	56.9	58.2	61.1	63.4	61.0	58.8	56.2						
165	25.8	12.7	21.3	35.9	46.6	52.4	51.8	53.2	56.6	56.3	54.3	51.3						
170	19.2	9.93	27.9	36.2	42.3	47.6	44.3	46.0	49.6	51.3	49.8	46.9						
175	22.4	29.2	35.5	38.1	40.1	43.4	36.6	40.0	43.4	46.1	45.6	43.3						
180	29.5	36.0	38.8	42.7	44.0	44.1	29.4	35.9	38.9	42.7	44.0	44.1						

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-02-12

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: