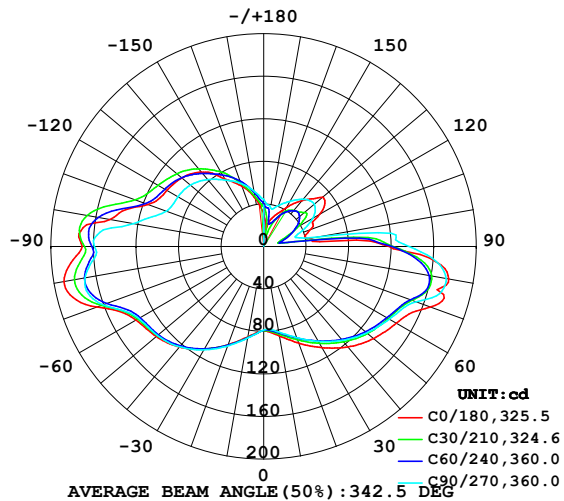


LUMINAIRE PHOTOMETRIC TEST REPORT

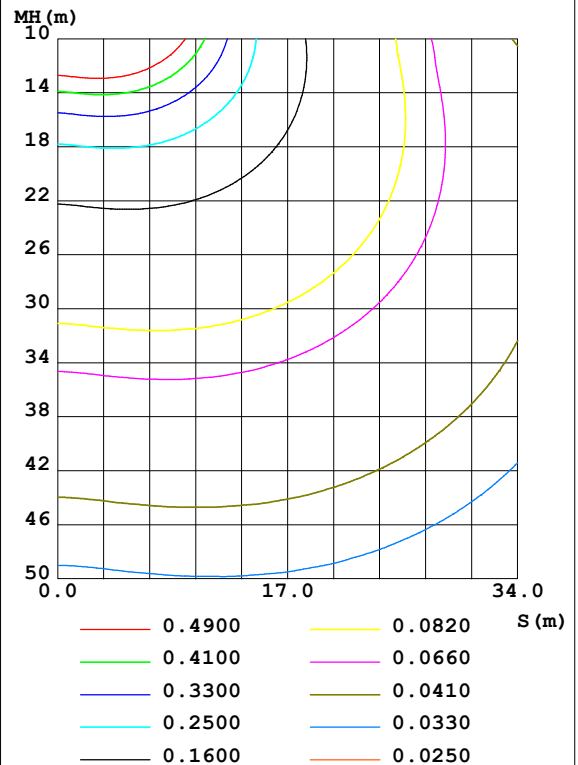
Test:U:120.6V I:0.1460A P:17.30W PF:0.9830 Freq:60.00Hz Lamp Flux:1397.9x1 lm		
NAME: RDFP-8-17W-95C-MVUD-BL 整灯 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 80.80 lm/W			
MODEL		I _{max} (cd)	192.8	S/MH (C0/180)	2.21
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	2.21
RATED VOLTAGE (V)		TOTAL FLUX (lm)	1397.9	η UP, DN (C0-180)	13.8, 30.8
NOMINAL FLUX (lm)	1397.9	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	85.59	83.17	81.76	82.98	86.34	87.08	87.58	86.96	0- 10	7.854	7.854	0.56,0.56
20	96.77	92.57	91.34	94.20	98.34	98.75	99.60	99.58	10- 20	25.84	33.69	2.41,2.41
30	110.0	103.9	103.0	107.1	111.6	111.3	112.3	113.5	20- 30	47.70	81.39	5.82,5.82
40	123.4	115.6	115.2	119.7	123.4	122.4	123.2	126.7	30- 40	72.55	153.9	11,11
50	134.8	126.2	126.6	129.9	131.8	129.9	130.4	136.7	40- 50	97.88	251.8	18,18
60	144.2	134.7	136.6	137.7	138.6	135.5	135.7	144.1	50- 60	120.7	372.5	26.6,26.6
70	167.0	147.6	152.5	156.5	166.8	159.7	160.7	175.3	60- 70	145.8	518.3	37.1,37.1
80	176.6	159.2	174.2	185.0	190.7	175.9	170.7	183.9	70- 80	182.5	700.8	50.1,50.1
90	117.9	121.3	136.7	162.2	170.6	165.1	159.1	161.6	80- 90	180.3	881.0	63,63
100	44.16	23.15	52.87	129.2	147.2	163.2	124.7	109.2	90-100	145.1	1026	73.4,73.4
110	46.89	19.87	34.52	67.25	115.9	123.5	97.53	73.22	100-110	87.69	1114	79.7,79.7
120	61.12	36.39	53.46	67.63	105.3	111.3	93.25	76.97	110-120	71.70	1186	84.8,84.8
130	72.26	46.94	62.23	73.44	100.4	103.7	89.99	80.57	120-130	69.19	1255	89.8,89.8
140	56.46	44.09	58.05	72.54	91.29	92.51	82.18	77.42	130-140	58.29	1313	93.9,93.9
150	41.96	36.48	48.96	65.34	73.48	79.46	72.22	68.99	140-150	42.15	1355	96.9,96.9
160	31.13	23.28	41.08	56.09	60.32	64.49	63.06	59.44	150-160	25.98	1381	98.8,98.8
170	19.83	19.60	37.43	46.67	45.87	49.56	53.03	50.05	160-170	12.89	1394	99.7,99.7
180	30.49	38.74	44.25	45.60	30.44	38.77	44.22	45.62	170-180	3.850	1398	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 199.81 lm

%lum = 14.3%

%lamp = 14.3%

Conical surface Flux(120deg): 372.49 lm

%lum = 26.6%

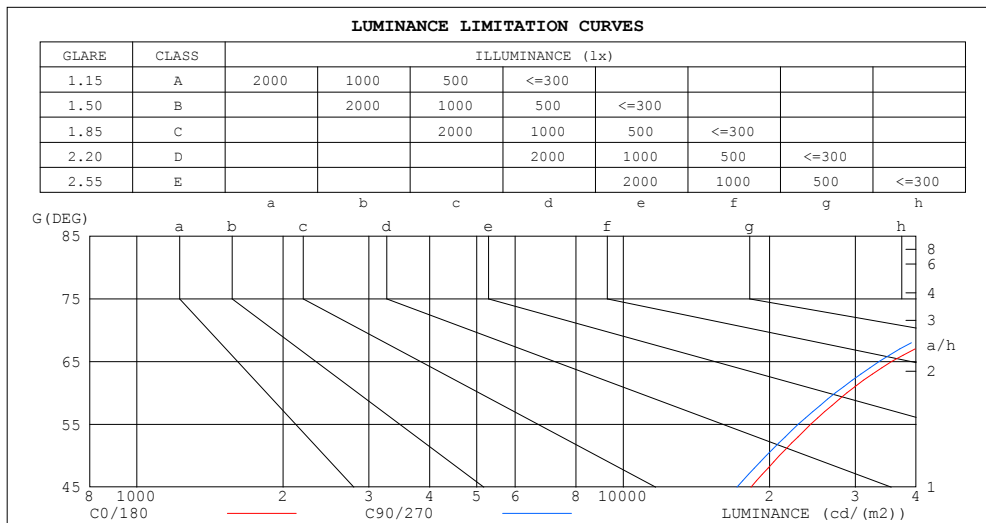
%lamp = 26.6%

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:0.1460A P:17.30W PF:0.9830 Freq:60.00Hz Lamp Flux:1397.9x1 lm		
NAME: RDFF-8-17W-95C-MVUD-BL 整灯 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	186318	186790
80	101673	100323
75	67648	66189
70	48835	44589
65	35685	33632
60	28845	27321
55	24332	22937
50	20974	19688
45	18311	17129

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:0.1460A P:17.30W PF:0.9830 Freq:60.00Hz Lamp Flux:1397.9x1 lm					
NAME: RDFP-8-17W-95C-MVUD-BL 整灯 4000K			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	.265	.084	.447	.255	.081	.412	.236	.075	.380	.219	.070	.350	.203	.065	
2.0	.380	.208	.064	.363	.200	.062	.331	.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	.131	.039	.221	.119	.036	.198	.108	.033	
5.0	.257	.131	.038	.244	.125	.036	.219	.114	.034	.197	.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	.169	.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	.337	.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	.278	.253	.221	.198	.147	.130	.118	.048	.043	.039	
9.0	.418	.358	.317	.360	.310	.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:0.1460A P:17.30W PF:0.9830 Freq:60.00Hz Lamp Flux:1397.9x1 lm											
NAME: RDFP-8-17W-95C-MVUD-BL 整灯 4000K						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	21.6	21.1	22.4	23.3	20.2	21.4	20.9	22.2	23.1	
	3H	24.1	25.3	24.9	26.1	27.1	23.8	25.0	24.6	25.8	26.8
	4H	26.4	27.5	27.1	28.3	29.3	26.1	27.2	26.9	28.0	29.0
	6H	28.7	29.7	29.5	30.5	31.6	28.5	29.6	29.3	30.4	31.4
	8H	29.9	30.9	30.7	31.7	32.8	29.8	30.8	30.6	31.6	32.6
	12H	31.2	32.1	32.0	33.0	34.0	31.1	32.0	31.9	32.9	33.9
4H	2H	21.4	22.5	22.2	23.3	24.3	21.2	22.4	22.0	23.2	24.2
	3H	25.2	26.2	26.1	27.1	28.1	25.0	26.0	25.8	26.8	27.9
	4H	27.6	28.5	28.4	29.3	30.4	27.4	28.3	28.2	29.2	30.2
	6H	30.0	30.8	30.9	31.7	32.8	29.9	30.7	30.8	31.6	32.7
	8H	31.3	32.1	32.2	33.0	34.1	31.2	32.0	32.1	32.9	34.0
	12H	32.7	33.4	33.6	34.3	35.4	32.6	33.3	33.5	34.2	35.3
8H	4H	28.3	29.1	29.2	29.9	31.1	28.2	28.9	29.0	29.8	30.9
	6H	31.0	31.6	31.9	32.5	33.7	30.9	31.5	31.8	32.4	33.6
	8H	32.4	33.0	33.3	33.9	35.1	32.3	32.9	33.2	33.8	35.0
	12H	34.0	34.5	34.9	35.5	36.6	33.9	34.4	34.8	35.4	36.5
12H	4H	28.5	29.2	29.4	30.1	31.2	28.4	29.1	29.3	30.0	31.1
	6H	31.3	31.9	32.2	32.8	33.9	31.2	31.8	32.1	32.7	33.9
	8H	32.8	33.3	33.7	34.3	35.5	32.7	33.3	33.6	34.2	35.4
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, 1398 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 1.2$)

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:0.1460A P:17.30W PF:0.9830 Freq:60.00Hz Lamp Flux:1397.9x1 lm		
NAME: RDFP-8-17W-95C-MVUD-BL 整灯 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:

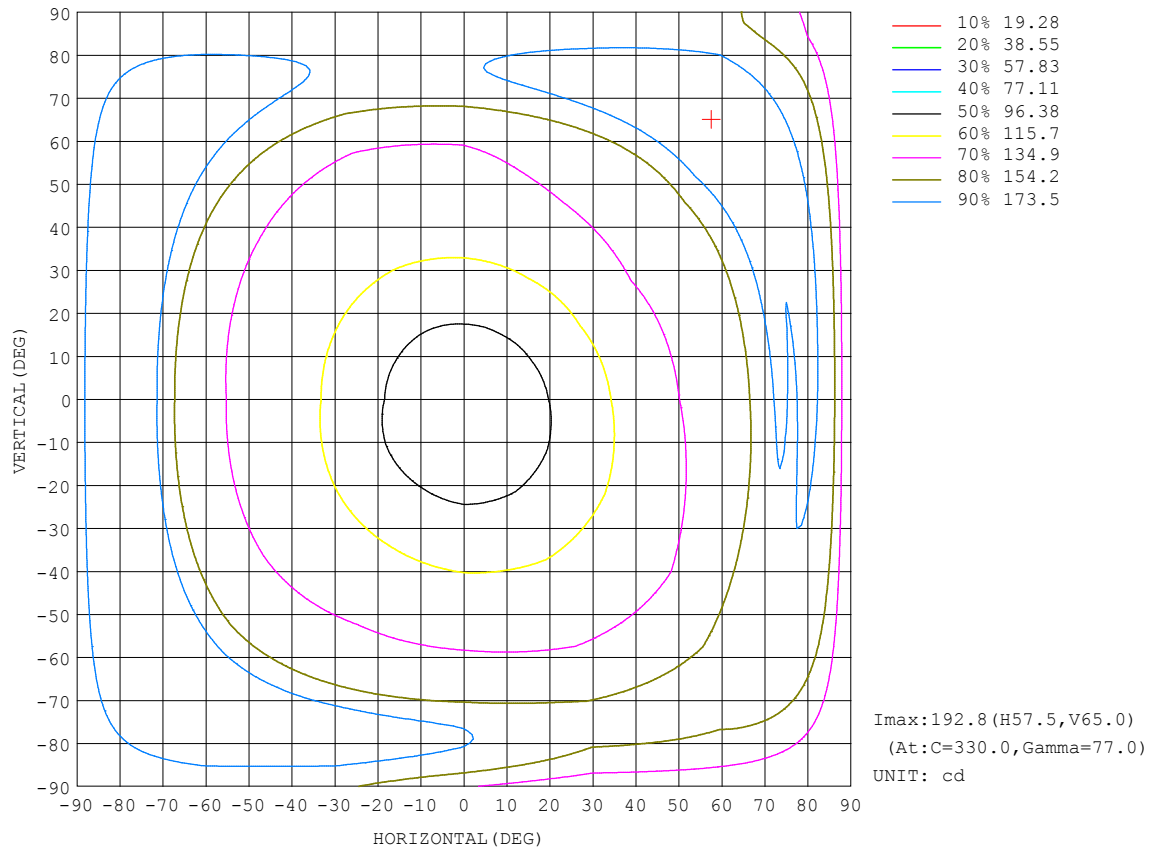
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	37	24	17	36	23	16	33	22	15	8
0.80	46	31	23	43	30	22	39	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	76	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:0.1460A P:17.30W PF:0.9830 Freq:60.00Hz Lamp Flux:1397.9x1 lm		
NAME: RDFF-8-17W-95C-MVUD-BL 整灯 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:

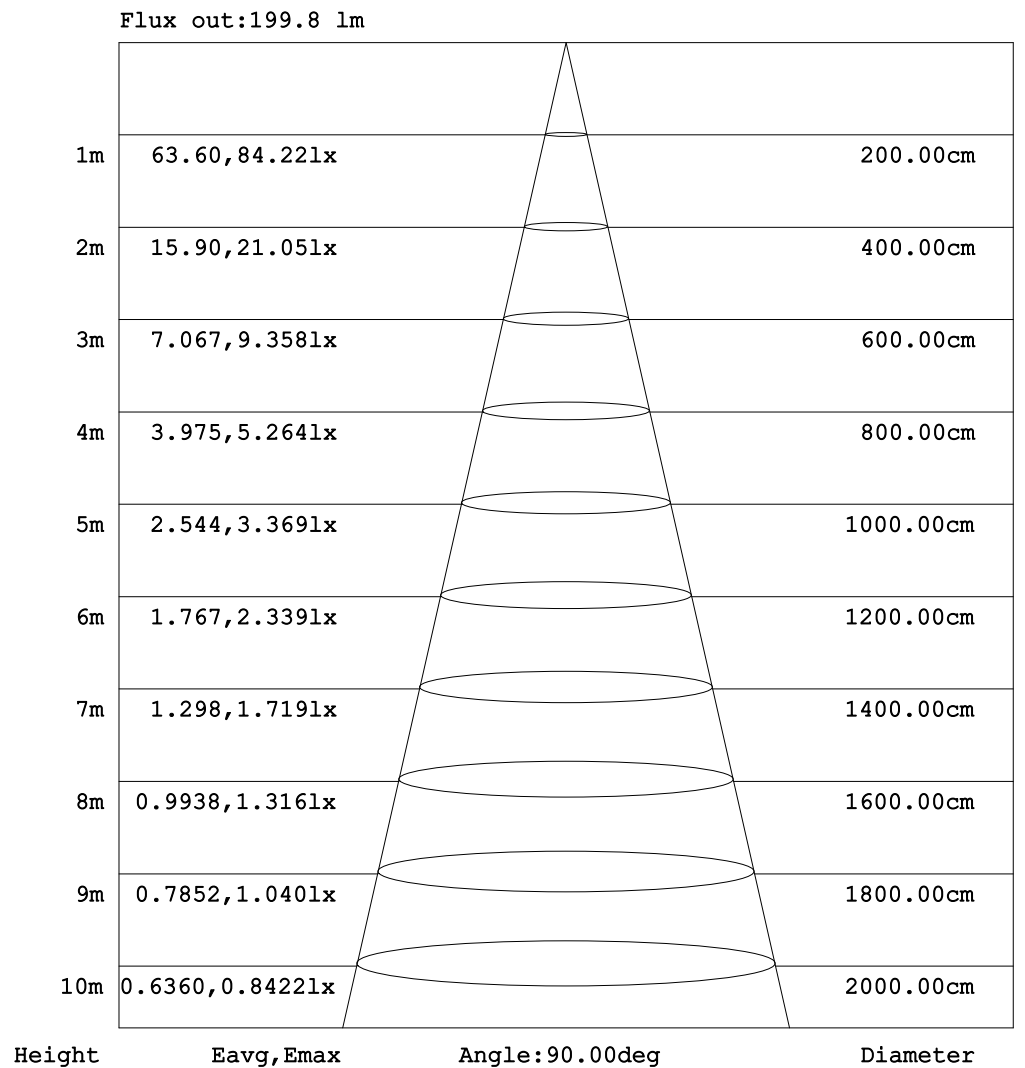


C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-02-12

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:0.1460A P:17.30W PF:0.9830 Freq:60.00Hz Lamp Flux:1397.9x1 lm		
NAME: RDFP-8-17W-95C-MVUD-BL 整灯 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:

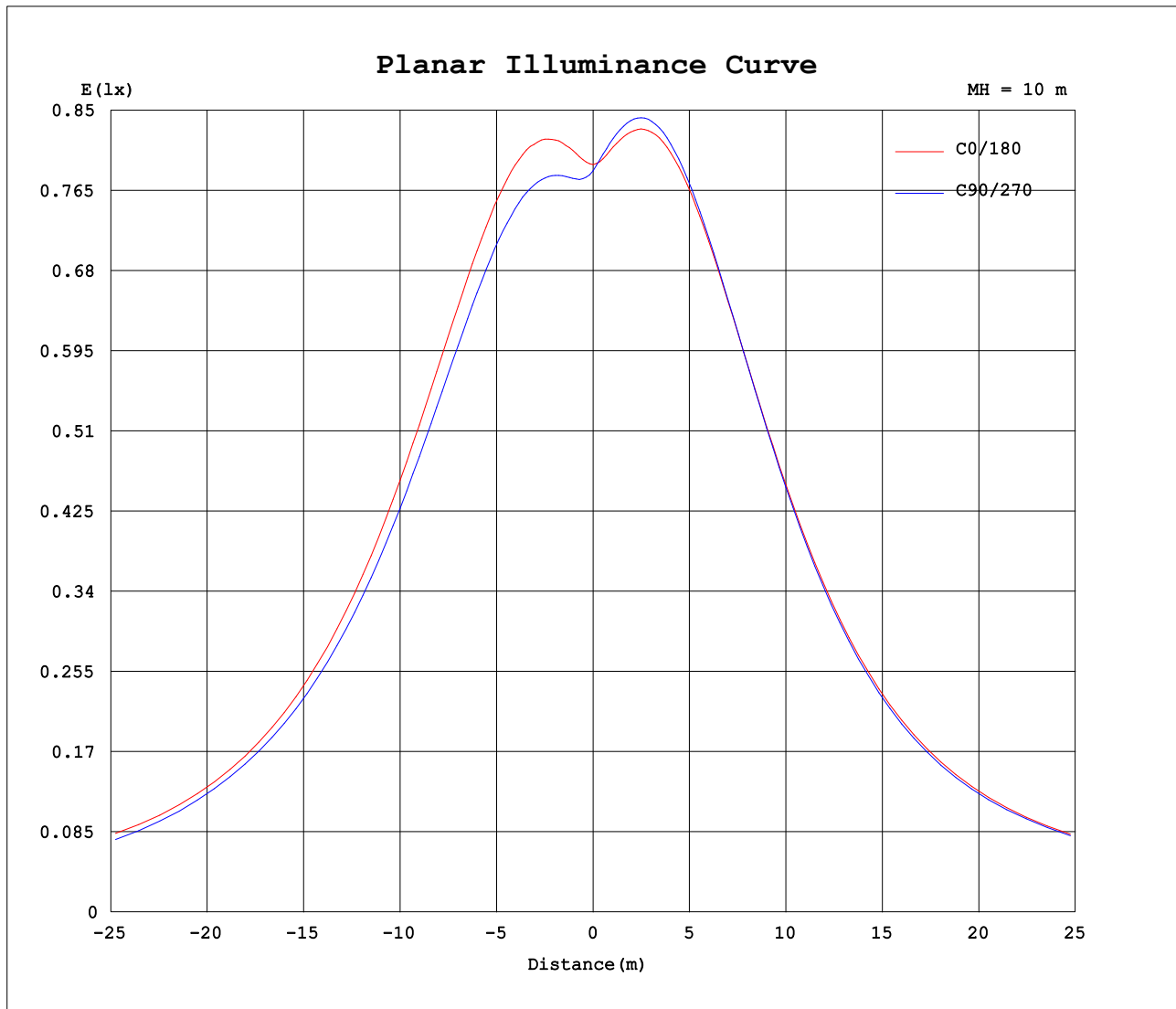


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.1460A P:17.30W PF:0.9830 Freq:60.00Hz Lamp Flux:1397.9x1 lm		
NAME: RDFF-8-17W-95C-MVUD-BL 整灯 4000K	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	79.3	79.3	79.0	78.6	78.3	78.2	79.3	79.3	79.0	78.6	78.3	78.2						
5	81.4	80.4	79.5	78.6	78.7	79.2	81.6	82.2	82.3	82.5	82.1	81.5						
10	85.6	83.8	82.6	81.8	82.5	83.5	86.3	87.0	87.2	87.6	87.4	86.5						
15	90.8	88.3	86.7	86.2	87.5	88.9	92.0	92.6	92.7	93.4	93.4	92.5						
20	96.8	93.6	91.6	91.3	93.3	95.1	98.3	98.7	98.8	99.6	100	99.2						
25	103	99.2	97.0	97.0	99.4	102	105	105	105	106	107	106						
30	110	105	103	103	106	108	112	111	111	112	114	113						
35	117	111	108	109	112	115	118	117	117	118	120	121						
40	123	117	114	115	118	121	123	123	122	123	126	127						
45	129	123	120	121	124	126	128	127	126	127	131	133						
50	135	127	125	127	129	130	132	131	129	130	135	139						
55	140	132	130	132	134	134	135	133	131	133	138	143						
60	144	135	134	137	138	137	139	137	134	136	141	147						
65	151	140	139	142	143	143	147	145	141	144	151	157						
70	167	148	147	153	155	158	167	162	157	161	171	180						
75	175	159	158	171	178	179	186	177	169	171	181	192						
80	177	160	158	174	184	186	191	181	171	171	179	189						
85	162	149	145	163	176	181	182	174	165	162	168	173						
90	118	122	121	137	158	166	171	169	162	159	163	161						
95	52.9	98.5	90.3	125	150	163	173	174	165	155	151	154						
100	44.2	22.4	23.9	52.9	125	133	147	169	158	125	113	106						
105	40.2	14.2	16.5	32.7	79.8	93.5	134	150	138	109	86.5	78.5						
110	46.9	17.8	21.9	34.5	62.7	71.8	116	129	118	97.5	75.5	70.9						
115	51.2	26.4	28.6	44.8	61.5	67.3	108	120	111	94.2	75.7	72.2						
120	61.1	37.9	34.9	53.5	65.5	69.7	105	115	108	93.3	78.1	75.8						
125	70.3	48.6	40.4	59.4	69.5	73.1	103	111	105	92.2	80.1	78.8						
130	72.3	49.8	44.1	62.2	71.6	75.3	100	107	101	90.0	80.8	80.3						
135	63.4	46.0	45.7	61.2	71.7	75.9	96.7	102	95.7	86.5	80.0	79.7						
140	56.5	44.3	43.9	58.0	70.0	75.1	91.3	95.4	89.6	82.2	77.7	77.1						
145	49.2	41.7	40.6	53.7	66.6	72.4	84.4	88.4	83.5	77.2	74.1	73.0						
150	42.0	37.1	35.8	49.0	62.4	68.3	73.5	81.2	77.8	72.2	69.8	68.2						
155	35.8	29.8	29.8	45.0	57.7	63.7	66.7	72.5	72.0	67.7	65.4	63.2						
160	31.1	21.7	24.8	41.1	53.1	59.1	60.3	63.4	65.6	63.1	60.8	58.1						
165	26.6	13.1	22.1	37.3	48.4	54.4	53.6	55.2	58.6	58.2	56.2	53.2						
170	19.8	10.3	28.9	37.4	43.9	49.4	45.9	47.7	51.4	53.0	51.5	48.6						
175	23.2	30.3	36.8	39.5	41.6	45.0	37.9	41.4	44.9	47.7	47.2	44.9						
180	30.5	37.3	40.2	44.2	45.5	45.7	30.4	37.2	40.3	44.2	45.6	45.7						

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: