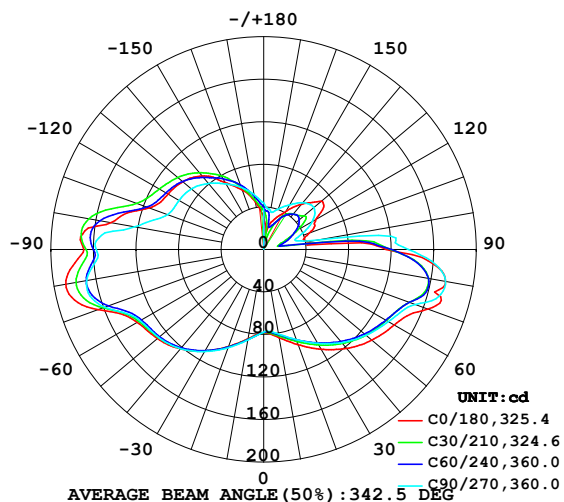


LUMINAIRE PHOTOMETRIC TEST REPORT

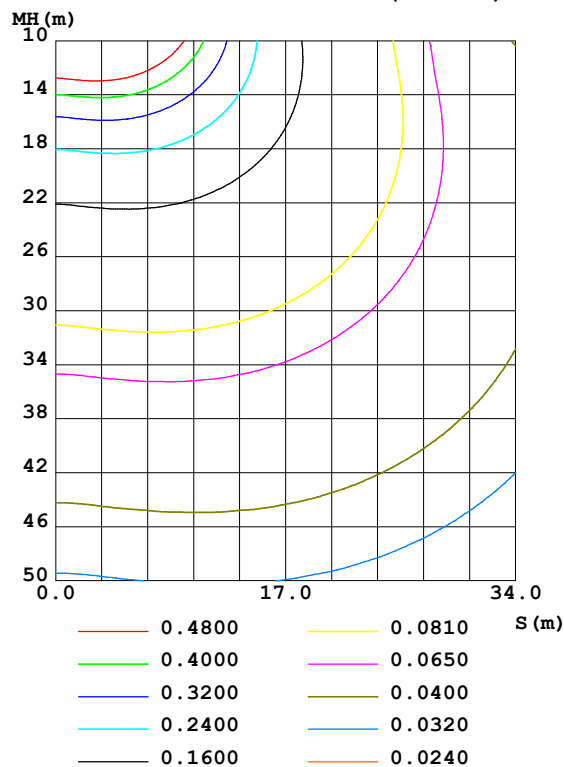
Test:U:120.5V I:0.1440A P:17.10W PF:0.9820 Freq:60.00Hz Lamp Flux:1383.18x1 lm		
NAME: RDFP-8-17W-95C-MVUD-BL 整灯 3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 80.89 lm/W			
MODEL		I _{max} (cd)	190.4	S/MH (C0/180)	2.21
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	2.21
RATED VOLTAGE (V)		TOTAL FLUX (lm)	1383.2	η UP, DN (C0-180)	13.8, 30.8
NOMINAL FLUX (lm)	1383.18	CIE CLASS	SEMI-D.	η UP, DN (C180-360)	23.2, 32.2
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	84.37	82.08	80.79	82.02	85.31	85.97	86.45	85.83	0- 10	7.755	7.755	0.56,0.56
20	95.42	91.37	90.34	93.19	97.18	97.57	98.38	98.28	10- 20	25.52	33.27	2.41,2.41
30	108.4	102.6	102.0	106.1	110.3	110.0	110.9	112.0	20- 30	47.12	80.39	5.81,5.81
40	121.5	114.2	114.3	118.6	122.1	121.0	121.8	125.0	30- 40	71.70	152.1	11,11
50	132.8	124.6	125.6	128.8	130.4	128.5	128.9	134.9	40- 50	96.76	248.9	18,18
60	142.0	133.1	135.7	136.6	137.2	134.1	134.1	142.2	50- 60	119.3	368.2	26.6,26.6
70	164.4	145.9	151.8	155.3	165.5	158.2	159.1	173.2	60- 70	144.2	512.4	37,37
80	173.6	157.3	173.7	183.6	188.9	174.3	169.0	181.6	70- 80	180.7	693.1	50.1,50.1
90	114.9	119.9	136.2	161.0	169.1	163.5	157.6	159.6	80- 90	178.6	871.8	63,63
100	42.22	22.91	53.25	128.5	146.0	161.6	123.3	108.1	90-100	143.9	1016	73.4,73.4
110	46.00	19.69	34.27	66.84	114.5	122.1	96.30	72.32	100-110	86.79	1102	79.7,79.7
120	56.90	35.98	52.99	67.10	104.1	110.0	92.07	75.96	110-120	70.97	1173	84.8,84.8
130	71.04	46.39	61.64	72.79	99.27	102.5	88.83	79.48	120-130	68.28	1242	89.8,89.8
140	55.68	43.57	57.51	71.84	90.26	91.35	81.09	76.36	130-140	57.60	1299	93.9,93.9
150	41.30	36.04	48.51	64.65	72.63	78.50	71.23	68.07	140-150	41.64	1341	96.9,96.9
160	30.59	23.01	40.65	55.47	59.62	63.69	62.20	58.64	150-160	25.66	1367	98.8,98.8
170	19.47	19.40	37.00	46.12	45.38	48.94	52.36	49.40	160-170	12.73	1379	99.7,99.7
180	30.16	38.26	43.66	45.00	30.11	38.28	43.64	45.02	170-180	3.802	1383	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 197.44 lm

%lum = 14.3%

%lamp = 14.3%

Conical surface Flux(120deg): 368.18 lm

%lum = 26.6%

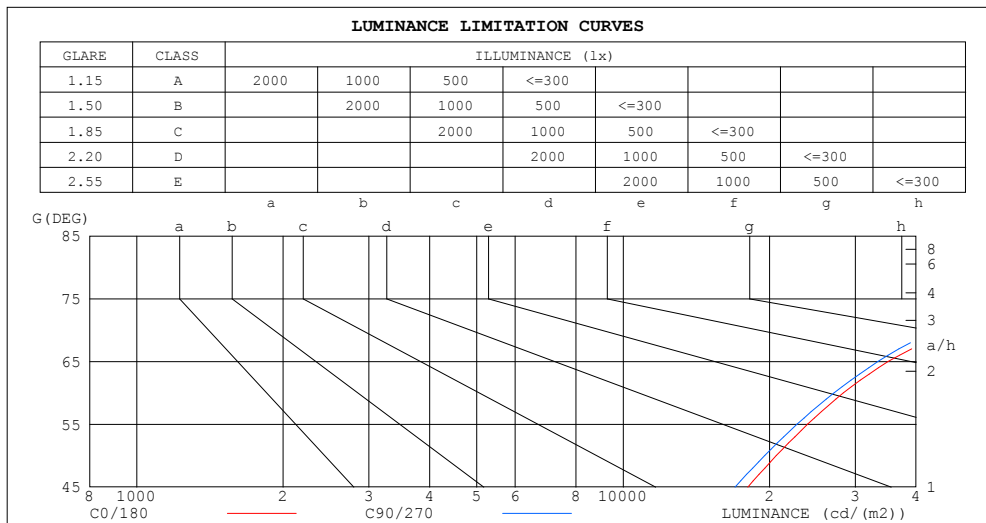
%lamp = 26.6%

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:120.5V I:0.1440A P:17.10W PF:0.9820 Freq:60.00Hz Lamp Flux:1383.18x1 lm		
NAME: RDFF-8-17W-95C-MVUD-BL 整灯 3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	183988	186268
80	99994	100032
75	66548	65986
70	48062	44373
65	35113	33445
60	28397	27142
55	23958	22780
50	20657	19544
45	18032	16992

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:120.5V I:0.1440A P:17.10W PF:0.9820 Freq:60.00Hz Lamp Flux:1383.18x1 lm					
NAME: RDFP-8-17W-95C-MVUD-BL 整灯 3500K			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	.466	.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	.174	.052	.311	.166	.050	.281	.153	.046	.255	.139	.043	.230	.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	.158	.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	.349	.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:120.5V I:0.1440A P:17.10W PF:0.9820 Freq:60.00Hz Lamp Flux:1383.18x1 lm											
NAME: RDFP-8-17W-95C-MVUD-BL 整灯 3500K						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	20.3	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	27.0	23.8	25.0	24.6	25.8	26.8
	4H	26.3	27.4	27.1	28.2	29.2	26.1	27.3	26.9	28.1	29.1
	6H	28.6	29.7	29.4	30.5	31.5	28.6	29.6	29.4	30.4	31.5
	8H	29.9	30.9	30.7	31.7	32.7	29.8	30.8	30.6	31.6	32.7
	12H	31.1	32.1	31.9	32.9	34.0	31.1	32.1	31.9	32.9	34.0
4H	2H	21.4	22.5	22.1	23.3	24.3	21.3	22.4	22.0	23.2	24.2
	3H	25.2	26.2	26.0	27.0	28.1	25.0	26.0	25.9	26.9	27.9
	4H	27.5	28.4	28.3	29.3	30.4	27.4	28.3	28.3	29.2	30.3
	6H	30.0	30.8	30.8	31.7	32.8	30.0	30.8	30.8	31.6	32.7
	8H	31.3	32.1	32.1	32.9	34.0	31.3	32.0	32.1	32.9	34.0
	12H	32.7	33.4	33.5	34.3	35.4	32.7	33.4	33.5	34.3	35.4
8H	4H	28.3	29.0	29.1	29.9	31.0	28.2	29.0	29.1	29.9	31.0
	6H	30.9	31.6	31.8	32.5	33.6	30.9	31.6	31.8	32.5	33.6
	8H	32.4	33.0	33.3	33.9	35.1	32.4	33.0	33.3	33.9	35.0
	12H	34.0	34.5	34.9	35.4	36.6	34.0	34.5	34.9	35.4	36.6
12H	4H	28.5	29.2	29.4	30.1	31.2	28.4	29.1	29.3	30.0	31.2
	6H	31.2	31.8	32.1	32.7	33.9	31.2	31.8	32.1	32.7	33.9
	8H	32.8	33.3	33.7	34.2	35.4	32.8	33.3	33.7	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, 1383 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 1.1$)

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:

UTILIZATION FACTORS TABLE

Test:U:120.5V I:0.1440A P:17.10W PF:0.9820 Freq:60.00Hz Lamp Flux:1383.18x1 lm		
NAME: RDFP-8-17W-95C-MVUD-BL 整灯 3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:

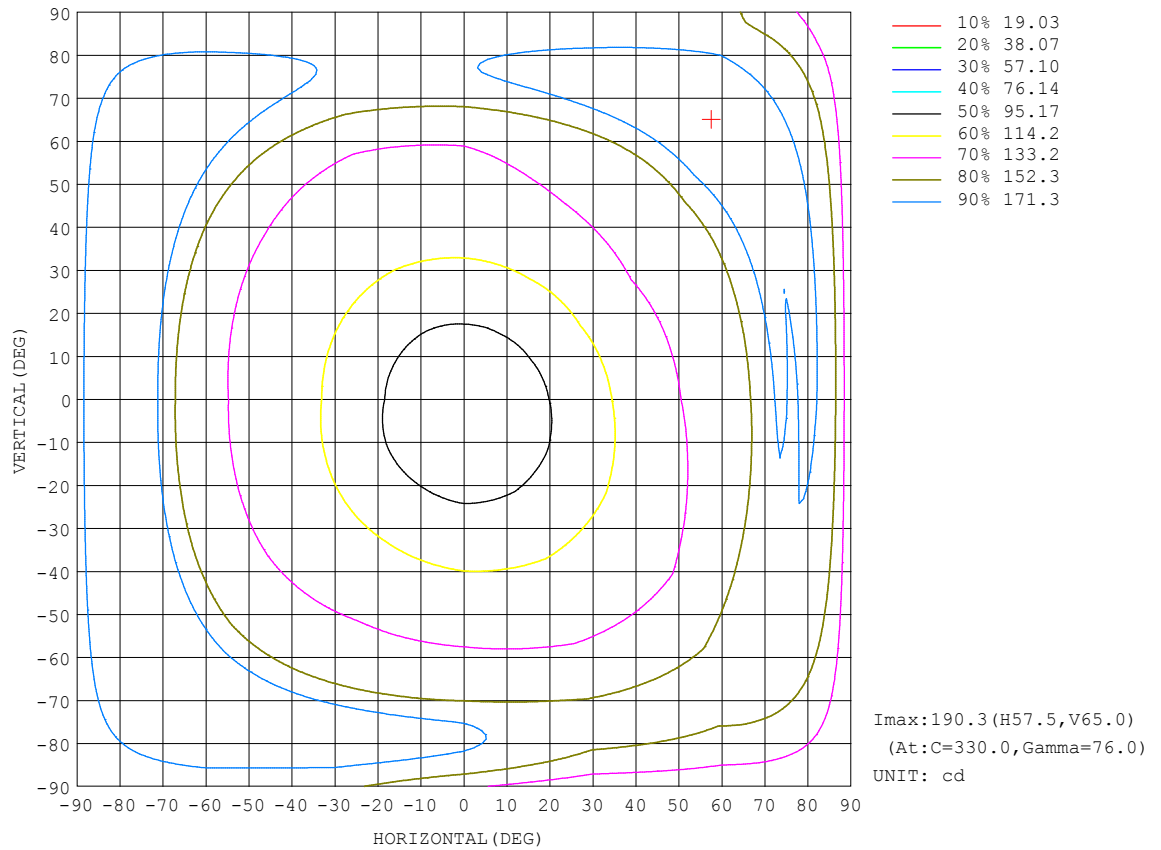
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	37	24	17	36	23	16	33	22	15	8
0.80	46	31	23	43	30	22	39	28	20	11
1.00	53	38	28	50	36	27	45	36	25	14
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:120.5V I:0.1440A P:17.10W PF:0.9820 Freq:60.00Hz Lamp Flux:1383.18x1 lm		
NAME: RDFF-8-17W-95C-MVUD-BL 整灯 3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:

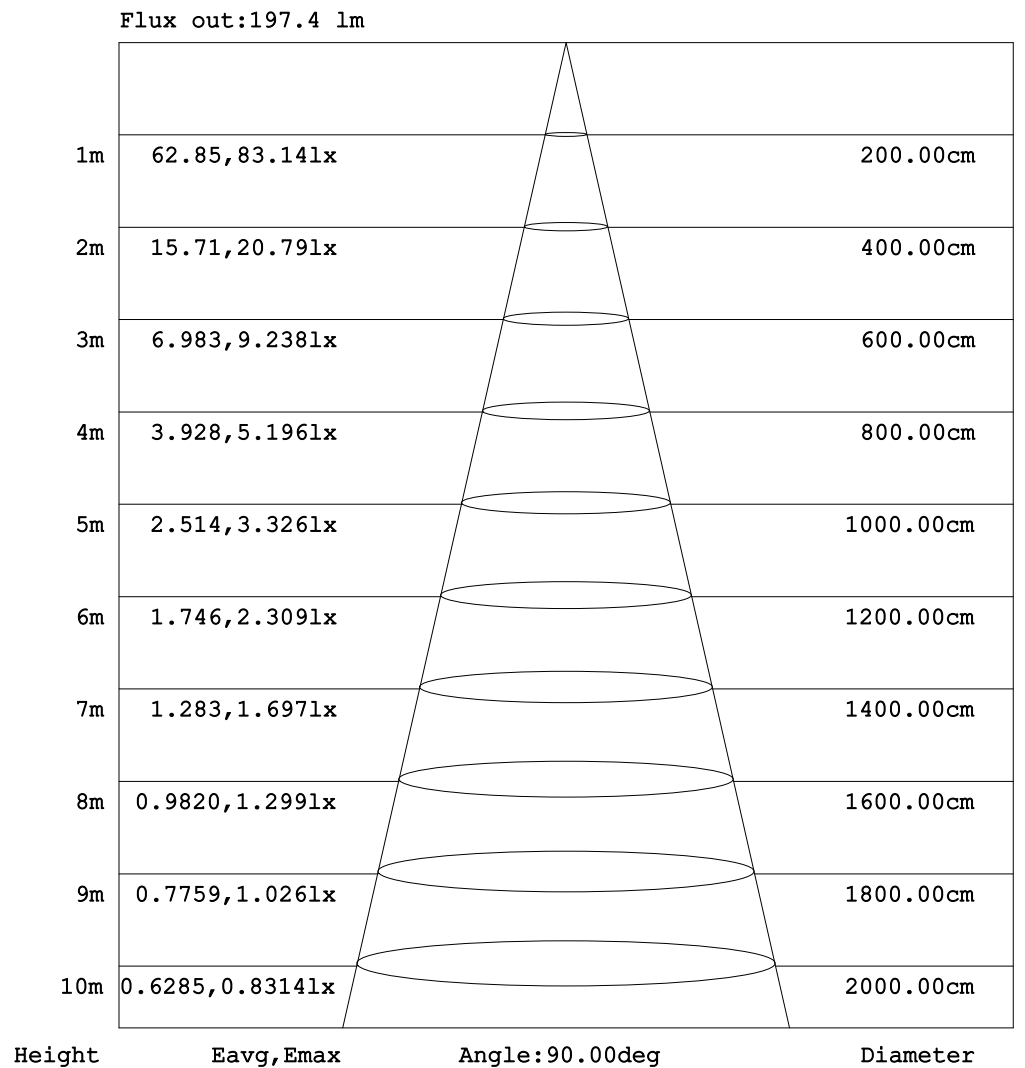


C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-02-12

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:120.5V I:0.1440A P:17.10W PF:0.9820 Freq:60.00Hz Lamp Flux:1383.18x1 lm		
NAME: RDFP-8-17W-95C-MVUD-BL 整灯 3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:

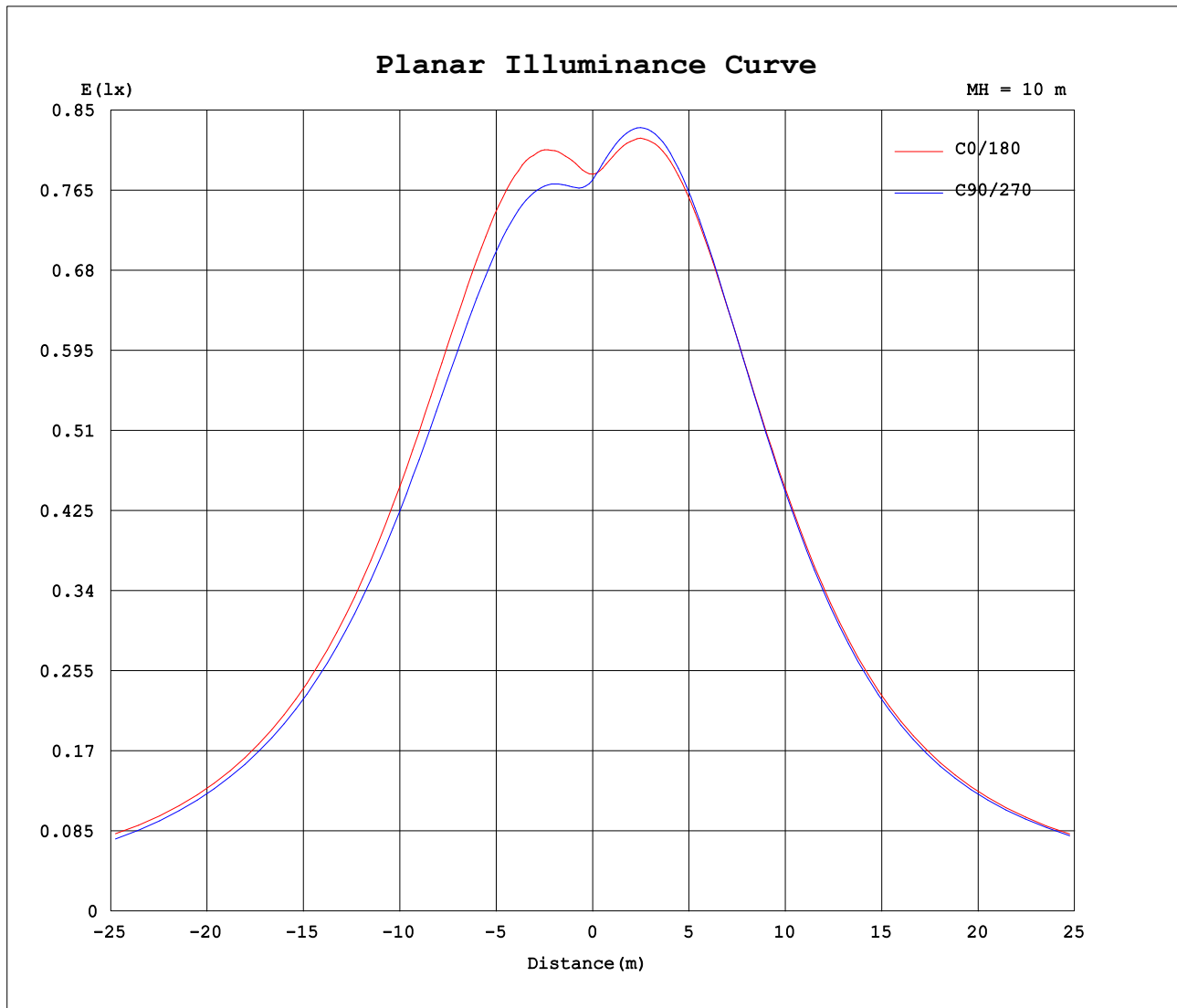


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:120.5V I:0.1440A P:17.10W PF:0.9820 Freq:60.00Hz Lamp Flux:1383.18x1 lm		
NAME: RDFF-8-17W-95C-MVUD-BL 整灯 3500K	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	78.2	78.2	77.9	77.6	77.3	77.2	78.2	78.2	77.9	77.6	77.3	77.2						
5	80.3	79.3	78.4	77.7	77.7	78.3	80.6	81.2	81.3	81.4	81.0	80.5						
10	84.4	82.7	81.5	80.8	81.5	82.5	85.3	85.9	86.0	86.4	86.2	85.4						
15	89.5	87.1	85.6	85.2	86.6	87.9	90.9	91.5	91.6	92.2	92.2	91.4						
20	95.4	92.2	90.5	90.3	92.3	94.1	97.2	97.6	97.6	98.4	98.7	97.9						
25	102	97.9	95.8	96.1	98.4	101	104	104	104	105	105	105						
30	108	104	101	102	105	107	110	110	110	111	112	112						
35	115	110	107	108	111	114	117	116	116	117	119	119						
40	122	115	113	114	117	120	122	121	121	122	124	126						
45	128	121	119	120	123	125	127	126	125	126	129	132						
50	133	126	124	126	128	129	130	129	128	129	133	137						
55	137	130	128	131	133	133	133	132	130	131	136	141						
60	142	133	133	136	137	136	137	136	133	134	139	145						
65	148	138	138	141	142	142	146	143	140	143	149	155						
70	164	146	146	152	154	157	166	161	155	159	169	178						
75	172	157	158	171	176	178	184	176	167	169	179	190						
80	174	157	157	174	183	184	189	179	169	169	177	187						
85	160	146	145	162	175	179	180	172	163	160	166	171						
90	115	119	120	136	157	165	169	167	160	158	161	158						
95	64.0	96.5	90.4	125	149	162	171	172	164	153	149	152						
100	42.2	22.1	23.8	53.3	124	133	146	167	156	123	112	104						
105	39.2	14.0	16.4	32.5	79.5	92.9	133	148	136	107	85.7	77.5						
110	46.0	17.6	21.8	34.3	62.3	71.3	115	127	117	96.3	74.7	70.0						
115	53.1	26.0	28.4	44.4	61.1	66.8	107	118	110	93.0	74.8	71.3						
120	56.9	37.4	34.6	53.0	65.0	69.2	104	114	106	92.1	77.1	74.8						
125	68.8	48.0	40.0	58.8	68.9	72.5	102	110	103	91.0	79.0	77.8						
130	71.0	49.1	43.7	61.6	71.0	74.6	99.3	105	99.6	88.8	79.8	79.2						
135	62.5	45.4	45.2	60.6	71.0	75.2	95.5	100	94.6	85.4	78.9	78.6						
140	55.7	43.7	43.4	57.5	69.3	74.4	90.3	94.3	88.4	81.1	76.7	76.1						
145	48.6	41.2	40.2	53.2	66.0	71.7	83.3	87.3	82.4	76.1	73.1	71.9						
150	41.3	36.6	35.5	48.5	61.7	67.6	72.6	80.2	76.8	71.2	68.9	67.2						
155	35.2	29.4	29.5	44.5	57.0	63.1	65.9	71.7	71.0	66.8	64.5	62.4						
160	30.6	21.4	24.6	40.6	52.5	58.5	59.6	62.6	64.8	62.2	59.9	57.3						
165	26.2	12.9	21.9	36.9	47.9	53.8	53.0	54.5	57.9	57.4	55.4	52.5						
170	19.5	10.2	28.6	37.0	43.4	48.8	45.4	47.2	50.7	52.4	50.9	47.9						
175	22.9	29.9	36.3	39.1	41.1	44.5	37.5	40.9	44.3	47.1	46.6	44.3						
180	30.2	36.8	39.7	43.7	44.9	45.1	30.1	36.8	39.8	43.6	45.0	45.1						

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: