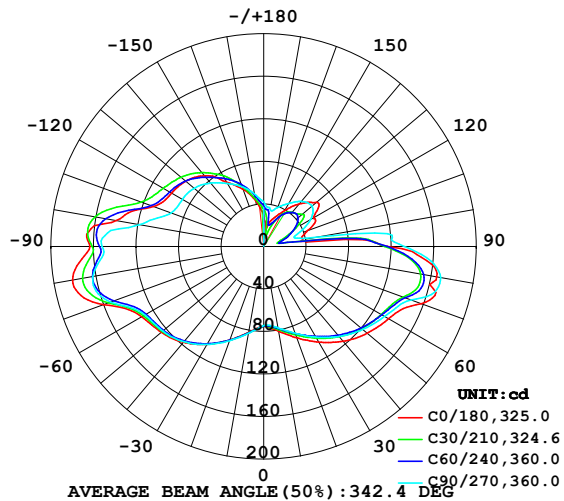


LUMINAIRE PHOTOMETRIC TEST REPORT

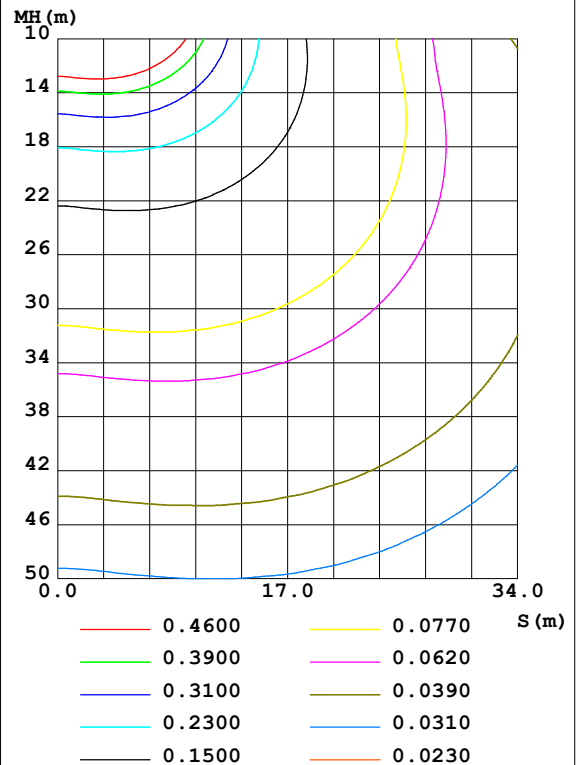
Test:U:120.6V I:0.1470A P:17.40W PF:0.9830 Freq:60.00Hz Lamp Flux:1332.11x1 lm		
NAME: RDFP-8-17W-95C-MVUD-BL 整灯 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 76.56 lm/W			
MODEL		I _{max} (cd)	182.8	S/MH (C0/180)	2.21
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	2.21
RATED VOLTAGE (V)		TOTAL FLUX (lm)	1332.1	η UP, DN (C0-180)	13.8, 30.8
NOMINAL FLUX (lm)	1332.11	CIE CLASS	SEMI-D.	η UP, DN (C180-360)	23.2, 32.2
LAMPS INSIDE	1	η up (%)	36.9	CIBSE SHR NOM	2.00
TEST VOLTAGE (V)		η down (%)	63.1	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	80.97	78.88	77.74	78.92	82.05	82.61	82.98	82.36	0- 10	7.451	7.451	0.56,0.56
20	91.51	87.86	87.04	89.77	93.55	93.81	94.42	94.30	10- 20	24.52	31.97	2.4,2.4
30	103.9	98.68	98.46	102.2	106.3	105.8	106.5	107.4	20- 30	45.31	77.28	5.8,5.8
40	116.4	109.9	110.4	114.4	117.7	116.5	117.0	119.9	30- 40	68.97	146.3	11,11
50	127.1	120.0	121.6	124.3	125.7	123.7	123.9	129.4	40- 50	93.12	239.4	18,18
60	135.9	128.2	131.5	131.9	132.4	129.2	129.0	136.4	50- 60	114.9	354.3	26.6,26.6
70	157.7	140.6	147.6	150.3	160.1	152.5	153.1	166.3	60- 70	138.9	493.2	37,37
80	165.2	151.3	168.9	177.5	182.5	168.3	163.1	174.6	70- 80	174.4	667.5	50.1,50.1
90	116.6	115.0	132.0	155.3	163.3	157.8	151.9	153.4	80- 90	172.4	839.9	63.1,63.1
100	37.36	21.84	50.81	123.4	140.9	155.9	118.9	104.7	90-100	138.9	978.8	73.5,73.5
110	44.16	19.06	33.23	64.34	110.2	117.6	92.68	69.60	100-110	83.61	1062	79.8,79.8
120	54.22	34.32	51.20	64.78	100.3	105.9	88.51	72.89	110-120	68.45	1131	84.9,84.9
130	64.87	44.60	59.44	70.21	95.66	98.69	85.38	76.23	120-130	65.47	1196	89.8,89.8
140	52.35	41.87	55.39	69.20	86.82	87.93	77.94	73.24	130-140	55.28	1252	94,94
150	38.85	34.61	46.70	62.19	69.86	75.44	68.45	65.32	140-150	39.98	1292	97,97
160	28.61	22.05	39.09	53.27	57.37	61.25	59.76	56.31	150-160	24.63	1316	98.8,98.8
170	18.56	18.73	35.57	44.27	43.63	47.05	50.31	47.47	160-170	12.22	1328	99.7,99.7
180	29.02	36.79	41.93	43.21	28.98	36.80	41.93	43.22	170-180	3.654	1332	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 189.89 lm

%lum = 14.3%

%lamp = 14.3%

Conical surface Flux(120deg): 354.25 lm

%lum = 26.6%

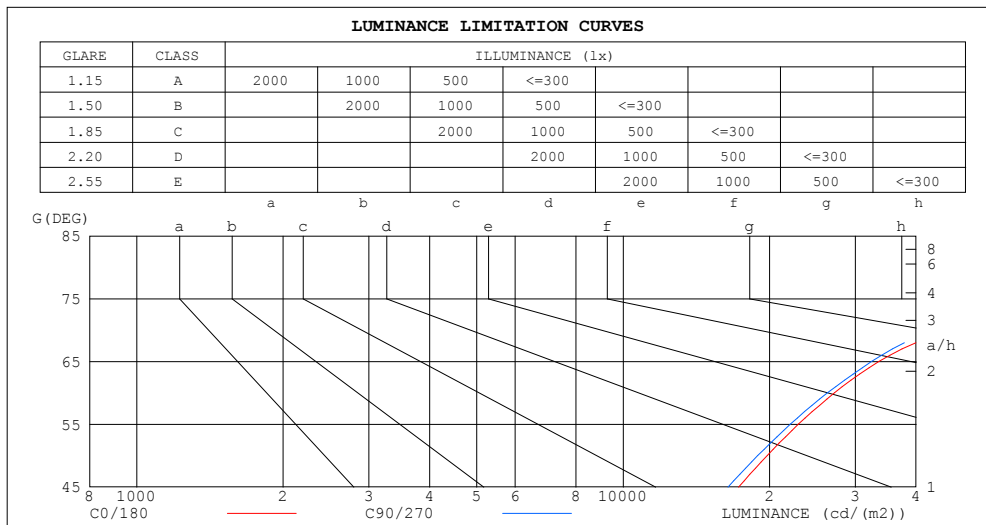
%lamp = 26.6%

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:0.1470A P:17.40W PF:0.9830 Freq:60.00Hz Lamp Flux:1332.11x1 lm		
NAME: RDFF-8-17W-95C-MVUD-BL 整灯 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	176648	180901
80	95111	97256
75	64767	64270
70	46115	43160
65	33579	32440
60	27182	26303
55	22938	22068
50	19780	18914
45	17271	16436

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:0.1470A P:17.40W PF:0.9830 Freq:60.00Hz Lamp Flux:1332.11x1 lm					
NAME: RDFP-8-17W-95C-MVUD-BL 整灯 3000K			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	.237	.076	.380	.219	.070	.351	.203	.066		
2.0	.380	.208	.064	.363	.200	.062	.331	.184	.057	.302	.169	.053	.274	.155	.049		
3.0	.326	.174	.052	.311	.166	.050	.282	.153	.046	.255	.140	.043	.230	.127	.039		
4.0	.287	.149	.044	.273	.143	.042	.246	.131	.039	.222	.119	.036	.199	.108	.033		
5.0	.257	.131	.038	.244	.125	.036	.219	.114	.034	.197	.104	.031	.176	.094	.028		
6.0	.232	.116	.033	.221	.111	.032	.198	.102	.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	.122	.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	.403	.403	.403	.275	.275	.275	.158	.158	.158	.051	.051	.051	
1.0	.475	.439	.406	.406	.376	.349	.278	.259	.242	.160	.150	.140	.051	.048	.045	
2.0	.470	.417	.373	.402	.359	.322	.276	.248	.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	.390	.341	.390	.337	.296	.268	.235	.209	.155	.138	.123	.050	.045	.041	
5.0	.447	.381	.333	.384	.330	.290	.264	.230	.204	.153	.135	.121	.049	.044	.040	
6.0	.439	.374	.327	.377	.324	.285	.260	.227	.201	.151	.133	.120	.049	.044	.040	
7.0	.432	.367	.322	.371	.318	.281	.257	.223	.199	.149	.132	.119	.048	.043	.039	
8.0	.425	.362	.319	.366	.314	.278	.253	.221	.197	.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	.353	.314	.355	.307	.274	.246	.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:0.1470A P:17.40W PF:0.9830 Freq:60.00Hz Lamp Flux:1332.11x1 lm											
NAME: RDFP-8-17W-95C-MVUD-BL 整灯 3000K						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	21.0	22.3	23.3	20.2	21.5	20.9	22.2	23.2	
	3H	24.1	25.2	24.8	26.0	27.0	23.9	25.1	24.6	25.8	26.8
	4H	26.3	27.4	27.1	28.2	29.2	26.2	27.3	27.0	28.1	29.1
	6H	28.6	29.6	29.4	30.5	31.5	28.6	29.7	29.4	30.5	31.5
	8H	29.8	30.8	30.6	31.6	32.7	29.9	30.9	30.7	31.7	32.7
	12H	31.1	32.1	31.9	32.9	33.9	31.2	32.1	32.0	33.0	34.0
4H	2H	21.3	22.4	22.1	23.3	24.3	21.3	22.4	22.1	23.2	24.2
	3H	25.2	26.2	26.0	27.0	28.0	25.1	26.1	25.9	26.9	28.0
	4H	27.5	28.4	28.3	29.3	30.3	27.5	28.4	28.3	29.2	30.3
	6H	29.9	30.7	30.8	31.6	32.7	30.0	30.8	30.9	31.7	32.8
	8H	31.2	32.0	32.1	32.9	34.0	31.3	32.1	32.2	33.0	34.1
	12H	32.6	33.3	33.5	34.2	35.3	32.7	33.4	33.6	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	31.5	31.8	32.4	33.6	31.0	31.6	31.8	32.5	33.7
	8H	32.3	32.9	33.2	33.8	35.0	32.4	33.0	33.3	33.9	35.1
	12H	33.9	34.4	34.8	35.4	36.5	34.0	34.5	34.9	35.5	36.6
12H	4H	28.5	29.2	29.4	30.1	31.2	28.5	29.2	29.3	30.1	31.2
	6H	31.2	31.8	32.1	32.7	33.9	31.3	31.9	32.2	32.8	33.9
	8H	32.7	33.3	33.6	34.2	35.4	32.8	33.3	33.7	34.3	35.4
Variations with the observer position at spacings:											
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1					
1.5H	+ 0.2 / - 0.2					+ 0.2 / - 0.2					
2.0H	+ 0.3 / - 0.3					+ 0.3 / - 0.4					

CIE Pub.117, 1332 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:0.1470A P:17.40W PF:0.9830 Freq:60.00Hz Lamp Flux:1332.11x1 lm		
NAME: RDFP-8-17W-95C-MVUD-BL 整灯 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:

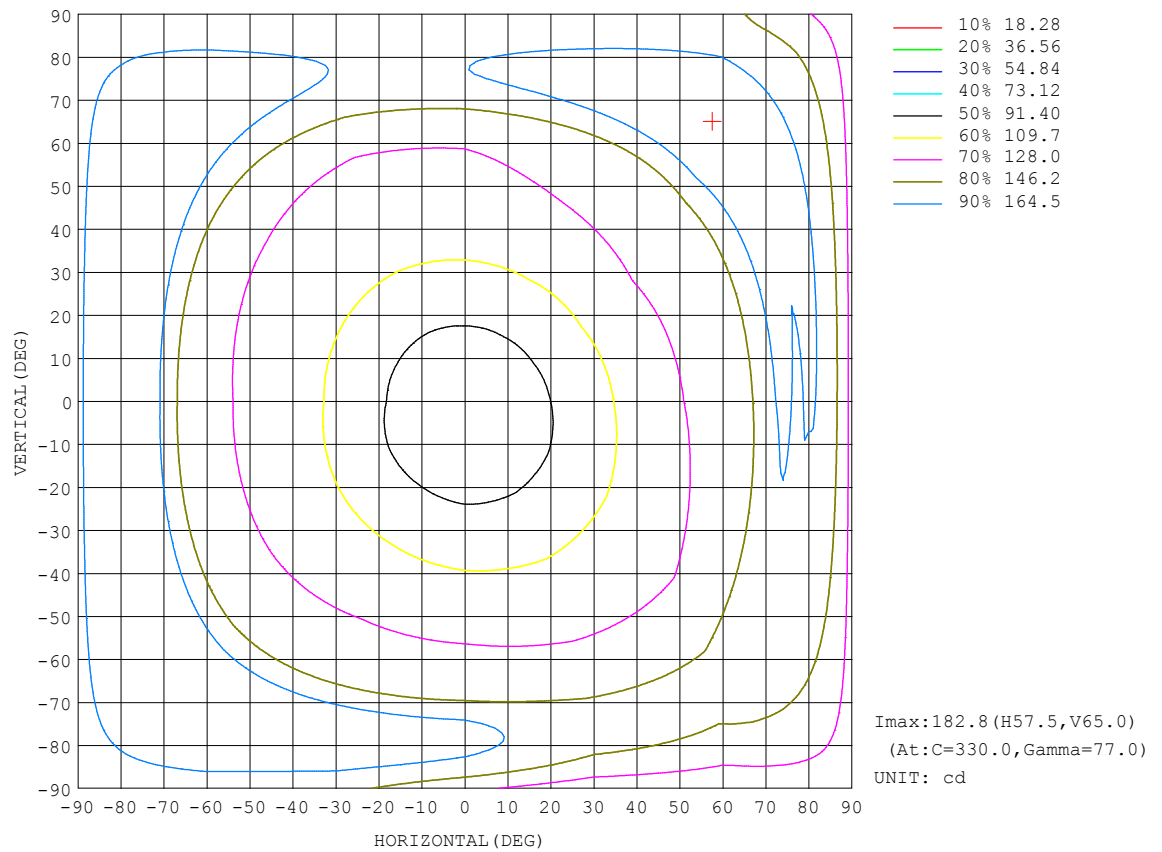
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	37	24	17	36	23	16	33	22	15	8
0.80	46	31	23	43	30	22	39	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	60	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:0.1470A P:17.40W PF:0.9830 Freq:60.00Hz Lamp Flux:1332.11x1 lm		
NAME: RDFF-8-17W-95C-MVUD-BL 整灯 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:

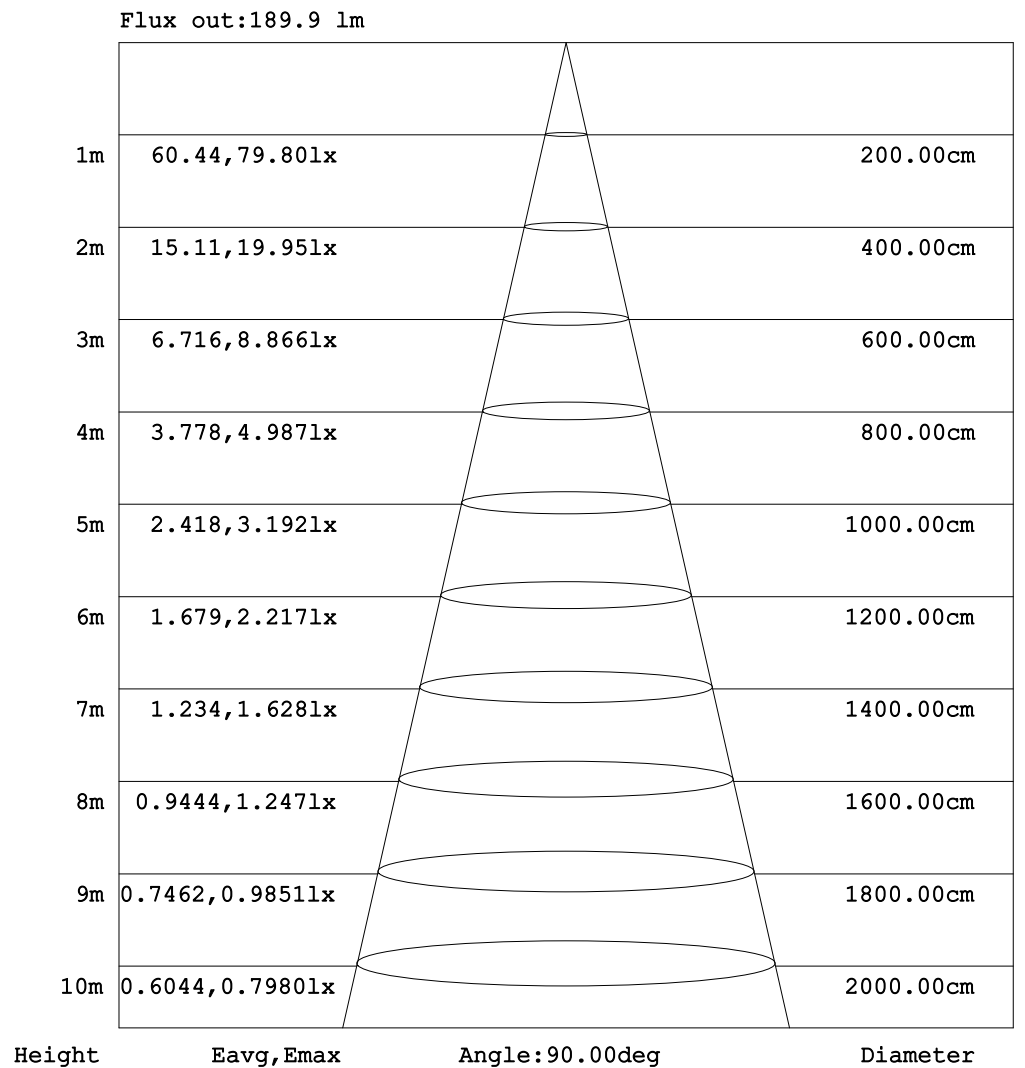


C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-02-12

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:0.1470A P:17.40W PF:0.9830 Freq:60.00Hz Lamp Flux:1332.11x1 lm		
NAME: RDFP-8-17W-95C-MVUD-BL 整灯 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:

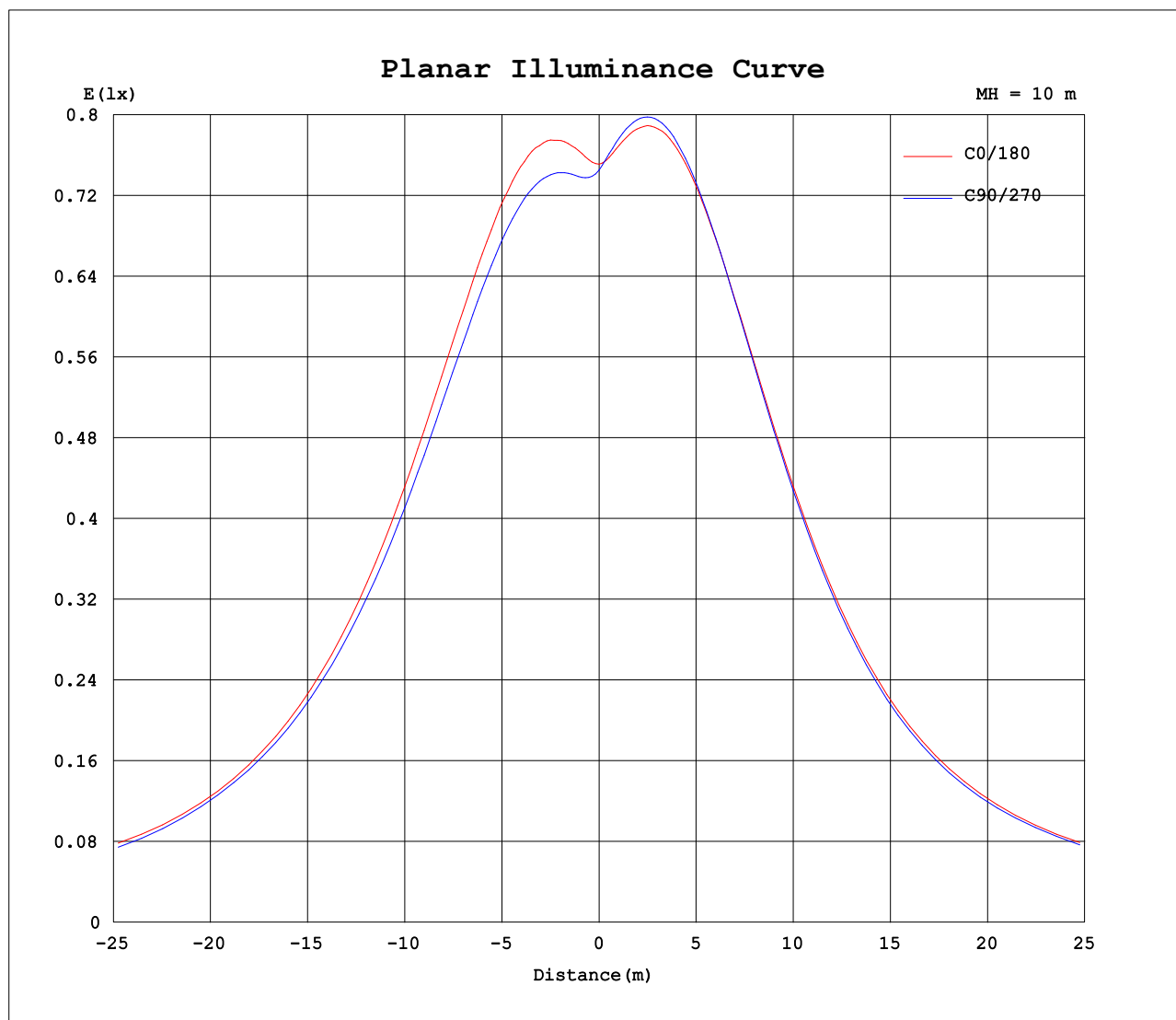


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.1470A P:17.40W PF:0.9830 Freq:60.00Hz Lamp Flux:1332.11x1 lm		
NAME: RDFF-8-17W-95C-MVUD-BL 整灯 3000K	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	75.1	75.1	74.9	74.5	74.2	74.2	75.1	75.1	74.9	74.5	74.2	74.2							
5	77.1	76.2	75.4	74.6	74.7	75.3	77.5	78.0	78.1	78.1	77.8	77.3							
10	81.0	79.4	78.4	77.7	78.5	79.4	82.0	82.6	82.6	83.0	82.7	82.0							
15	85.9	83.7	82.4	82.0	83.4	84.7	87.5	88.0	88.0	88.5	88.5	87.6							
20	91.5	88.6	87.1	87.0	88.9	90.6	93.6	93.8	93.8	94.4	94.7	93.9							
25	97.5	94.0	92.2	92.6	94.9	96.9	99.9	99.9	99.7	100	101	100							
30	104	99.6	97.7	98.5	101	103	106	106	106	106	108	107							
35	110	105	103	104	107	110	112	112	111	112	114	114							
40	116	111	109	110	113	115	118	117	116	117	119	120							
45	122	116	114	116	119	121	122	121	120	121	124	126							
50	127	120	119	122	124	125	126	124	123	124	128	131							
55	132	124	124	127	128	128	129	127	125	126	130	135							
60	136	128	128	132	132	131	132	131	128	129	134	139							
65	142	132	134	137	137	137	141	138	134	137	143	148							
70	158	140	142	148	149	151	160	155	150	153	162	171							
75	168	150	153	166	171	172	178	170	161	163	172	182							
80	165	150	153	169	177	178	183	173	164	163	170	179							
85	154	139	140	158	169	173	174	166	157	155	160	164							
90	117	114	116	132	152	159	163	161	154	152	155	152							
95	76.4	91.5	87.6	121	145	156	165	166	158	148	144	147							
100	37.4	20.9	22.8	50.8	120	127	141	161	151	119	108	101							
105	37.7	13.5	15.9	31.3	76.4	89.2	128	143	132	104	83.0	75.1							
110	44.2	17.0	21.2	33.2	60.1	68.6	110	122	113	92.7	71.8	67.4							
115	53.4	24.7	27.5	43.0	59.0	64.4	103	114	106	89.4	71.8	68.5							
120	54.2	35.2	33.5	51.2	62.8	66.8	100	109	102	88.5	74.0	71.8							
125	62.6	44.9	38.6	56.8	66.5	69.9	98.4	105	99.6	87.4	75.8	74.6							
130	64.9	47.1	42.1	59.4	68.5	71.9	95.7	101	95.9	85.4	76.5	75.9							
135	58.8	43.6	43.6	58.4	68.5	72.5	92.0	96.7	90.9	82.1	75.8	75.4							
140	52.3	41.9	41.8	55.4	66.8	71.6	86.8	90.7	85.1	77.9	73.5	72.9							
145	45.6	39.5	38.7	51.2	63.5	69.0	80.3	84.0	79.2	73.2	70.2	69.0							
150	38.9	35.1	34.1	46.7	59.3	65.0	69.9	77.1	73.8	68.4	66.1	64.5							
155	33.2	28.1	28.4	42.9	54.8	60.6	63.4	68.9	68.3	64.2	61.9	59.9							
160	28.6	20.5	23.6	39.1	50.4	56.2	57.4	60.2	62.3	59.8	57.5	55.1							
165	24.8	12.3	21.0	35.5	46.0	51.6	51.0	52.4	55.6	55.2	53.3	50.4							
170	18.6	9.87	27.6	35.6	41.7	46.9	43.6	45.3	48.7	50.3	48.9	46.1							
175	22.0	28.8	34.9	37.5	39.4	42.7	36.1	39.3	42.6	45.3	44.8	42.6							
180	29.0	35.4	38.2	41.9	43.2	43.3	29.0	35.4	38.2	41.9	43.2	43.3							

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: