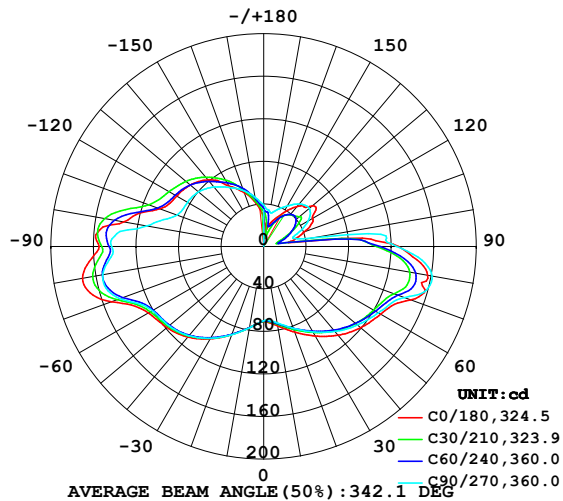


LUMINAIRE PHOTOMETRIC TEST REPORT

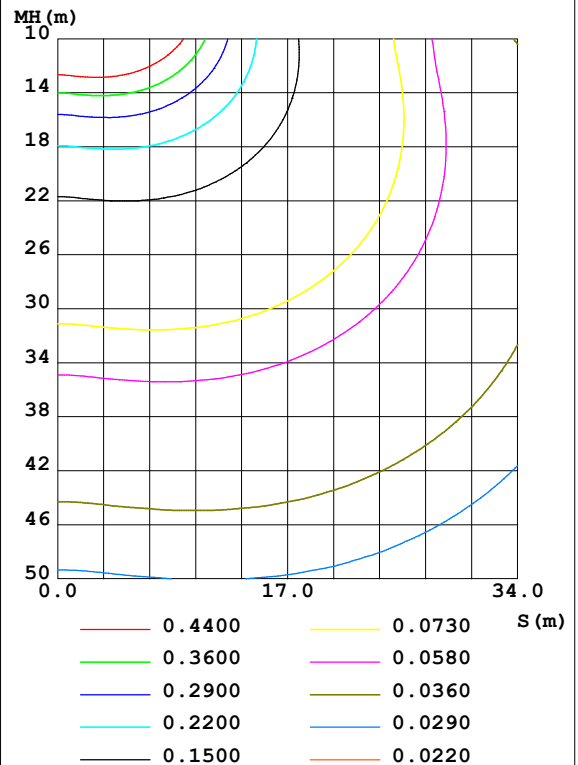
Test:U:120.6V I:0.1490A P:17.70W PF:0.9830 Freq:60.00Hz Lamp Flux:1254.22x1 lm		
NAME: RDFF-8-17W-95C-MVUD-BL 整灯 2700K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 70.86 lm/W			
MODEL		I _{max} (cd)	173.2	S/MH (C0/180)	2.22
NOMINAL POWER(W)		LOR (%)	100.0	S/MH (C90/270)	2.21
RATED VOLTAGE (V)		TOTAL FLUX (lm)	1254.2	η UP, DN (C0-180)	13.8, 30.9
NOMINAL FLUX (lm)	1254.22	CIE CLASS	SEMI-D.	η UP, DN (C180-360)	23.1, 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	76.00	74.05	73.04	74.08	77.37	77.55	77.66	77.08	0- 10	6.990	6.990	0.56,0.56
20	85.76	82.50	81.94	84.34	88.29	88.08	88.36	88.18	10- 20	23.01	30.00	2.39,2.39
30	97.30	92.72	92.89	96.17	100.3	99.42	99.69	100.4	20- 30	42.54	72.55	5.78,5.78
40	109.0	103.3	104.4	107.7	111.1	109.5	109.6	112.1	30- 40	64.79	137.3	10.9,10.9
50	119.0	112.8	115.1	117.1	118.7	116.4	116.2	121.1	40- 50	87.52	224.9	17.9,17.9
60	127.2	120.6	124.8	124.4	125.3	121.6	121.0	127.7	50- 60	108.0	332.9	26.5,26.5
70	147.2	132.4	140.7	142.1	152.2	143.8	143.7	155.9	60- 70	130.8	463.6	37,37
80	156.5	142.3	160.7	167.7	172.9	158.7	153.6	163.9	70- 80	164.5	628.2	50.1,50.1
90	126.9	107.7	125.1	146.7	154.8	148.8	143.0	143.9	80- 90	162.6	790.8	63.1,63.1
100	23.68	20.16	47.31	116.6	133.6	147.1	111.8	97.37	90-100	131.7	922.5	73.6,73.6
110	40.68	18.26	31.79	61.09	104.0	110.7	87.03	64.87	100-110	78.42	1001	79.8,79.8
120	53.21	32.64	48.58	61.24	94.73	99.62	82.97	68.08	110-120	64.50	1065	84.9,84.9
130	59.89	41.78	56.11	66.15	90.08	92.70	80.05	71.22	120-130	61.60	1127	89.9,89.9
140	49.21	39.14	52.19	65.06	81.72	82.53	73.06	68.44	130-140	51.79	1179	94,94
150	35.97	32.09	43.99	58.40	65.87	70.76	64.11	61.04	140-150	37.48	1216	97,97
160	26.13	20.49	36.74	49.96	54.08	57.52	55.95	52.64	150-160	23.05	1239	98.8,98.8
170	16.41	17.79	33.42	41.47	41.14	44.26	47.16	44.41	160-170	11.44	1251	99.7,99.7
180	27.40	34.65	39.33	40.41	27.38	34.67	39.27	40.42	170-180	3.428	1254	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 178.34 lm

%lum = 14.2%

%lamp = 14.2%

Conical surface Flux(120deg): 332.89 lm

%lum = 26.5%

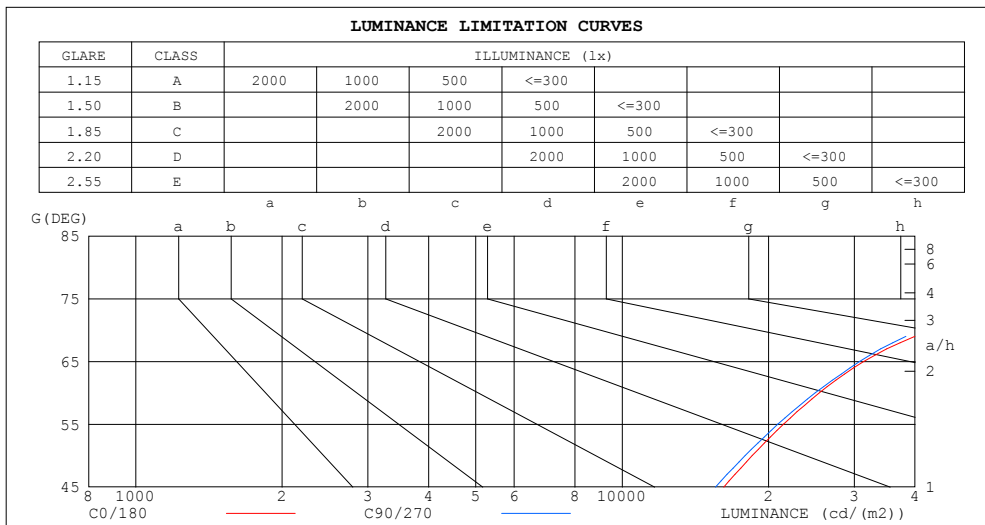
%lamp = 26.5%

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:1254.22x1 lm		
NAME: RDFP-8-17W-95C-MVUD-BL 整灯 2700K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	165737	171528
80	90153	92572
75	60696	61285
70	43028	41138
65	31403	30795
60	25434	24955
55	21470	20901
50	18521	17903
45	16173	15543

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:1254.22x1 lm					
NAME: RDFP-8-17W-95C-MVUD-BL 整灯 2700K			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	.448	.255	.081	.413	.237	.076	.381	.220	.070	.351	.204	.066	
2.0	.380	.208	.064	.363	.200	.062	.331	.184	.057	.302	.169	.053	.275	.155	.049	
3.0	.326	.174	.052	.311	.167	.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	.096	.027	.185	.091	.026	.166	.083	.024	.148	.075	.022	.131	.068	.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	.319	.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	.354	.315	.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:0.1490A P:17.70W PF:0.9830 Freq:60.00Hz Lamp Flux:1254.22x1 lm											
NAME: RDFP-8-17W-95C-MVUD-BL 整灯 2700K						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	21.5	21.0	22.3	23.2	20.2	21.5	21.0	22.3	23.2
3H		24.0	25.2	24.8	26.0	27.0	23.9	25.1	24.7	25.9	26.9
4H		26.3	27.4	27.0	28.2	29.2	26.3	27.4	27.1	28.2	29.2
6H		28.6	29.6	29.4	30.5	31.5	28.7	29.8	29.5	30.6	31.6
8H		29.8	30.8	30.6	31.6	32.7	29.9	31.0	30.7	31.8	32.8
12H		31.1	32.0	31.9	32.9	33.9	31.2	32.2	32.0	33.1	34.1
4H 2H		21.3	22.4	22.1	23.2	24.2	21.3	22.4	22.1	23.2	24.2
3H		25.1	26.1	25.9	27.0	28.0	25.1	26.1	25.9	27.0	28.0
4H		27.5	28.4	28.3	29.2	30.3	27.6	28.5	28.4	29.3	30.4
6H		29.9	30.7	30.8	31.6	32.7	30.1	30.9	30.9	31.8	32.9
8H		31.2	32.0	32.1	32.9	34.0	31.4	32.2	32.2	33.0	34.2
12H		32.6	33.3	33.5	34.2	35.3	32.8	33.5	33.6	34.4	35.5
8H 4H		28.2	29.0	29.1	29.9	31.0	28.3	29.1	29.2	30.0	31.1
6H		30.9	31.5	31.7	32.4	33.6	31.0	31.7	31.9	32.6	33.7
8H		32.3	32.9	33.2	33.8	35.0	32.5	33.1	33.4	34.0	35.2
12H		33.9	34.4	34.8	35.3	36.5	34.1	34.6	35.0	35.5	36.7
12H 4H		28.4	29.2	29.3	30.1	31.2	28.5	29.2	29.4	30.1	31.2
6H		31.2	31.8	32.1	32.7	33.8	31.3	31.9	32.2	32.8	34.0
8H		32.7	33.2	33.6	34.2	35.3	32.9	33.4	33.8	34.3	35.5
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, 1254 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 0.8$)

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:1254.22x1 lm		
NAME: RDFP-8-17W-95C-MVUD-BL 整灯 2700K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:

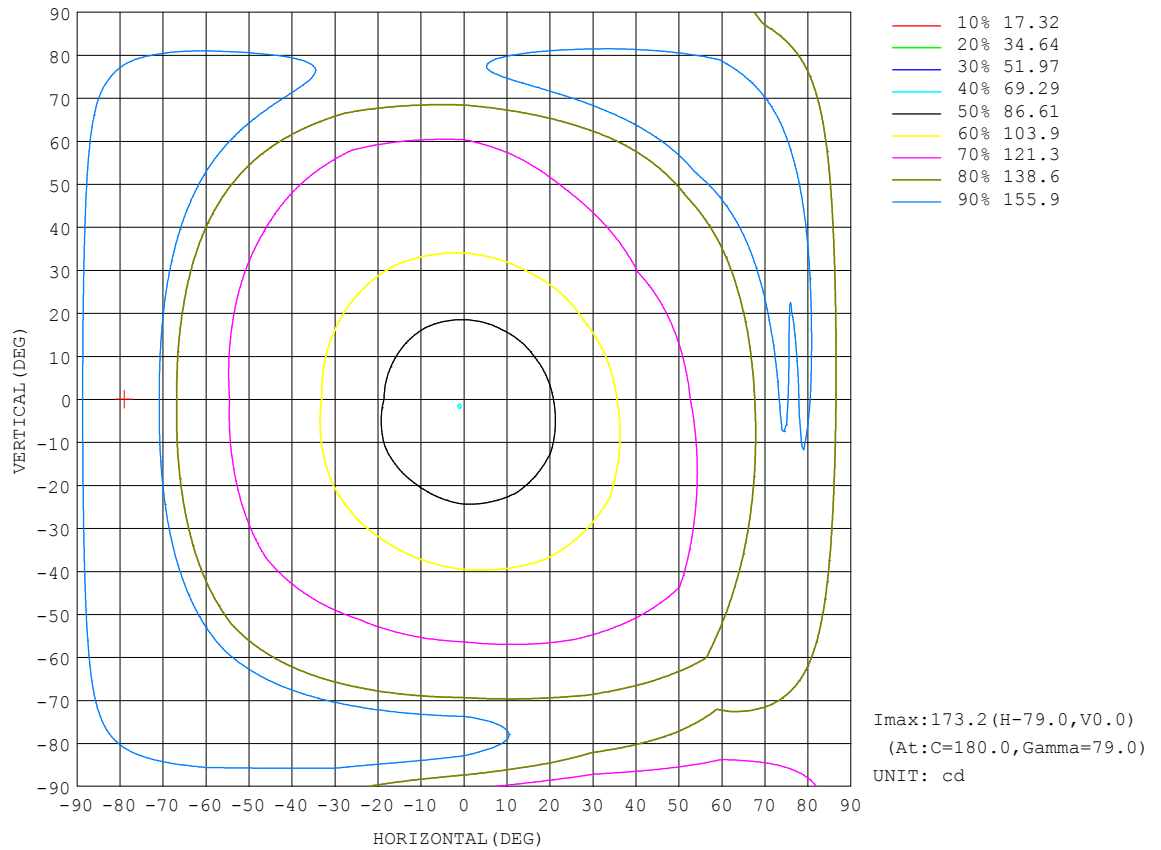
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	37	24	17	36	23	16	33	22	15	8
0.80	46	31	22	43	30	22	39	28	20	11
1.00	53	38	28	50	36	27	45	35	25	14
1.25	59	45	35	56	42	33	50	38	30	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	81	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:1254.22x1 lm		
NAME: RDFF-8-17W-95C-MVUD-BL 整灯 2700K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:

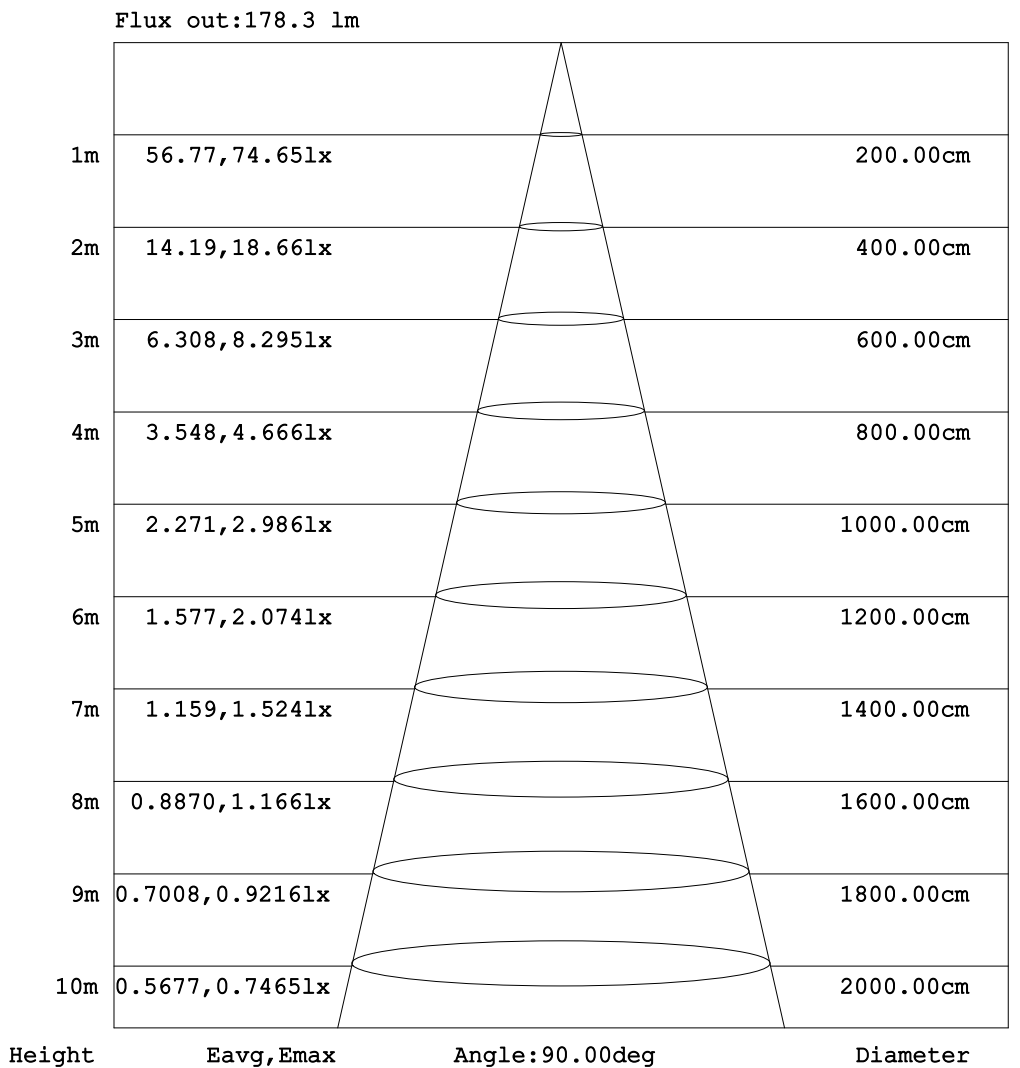


C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-02-12

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:1254.22x1 lm		
NAME: RDFP-8-17W-95C-MVUD-BL 整灯 2700K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:

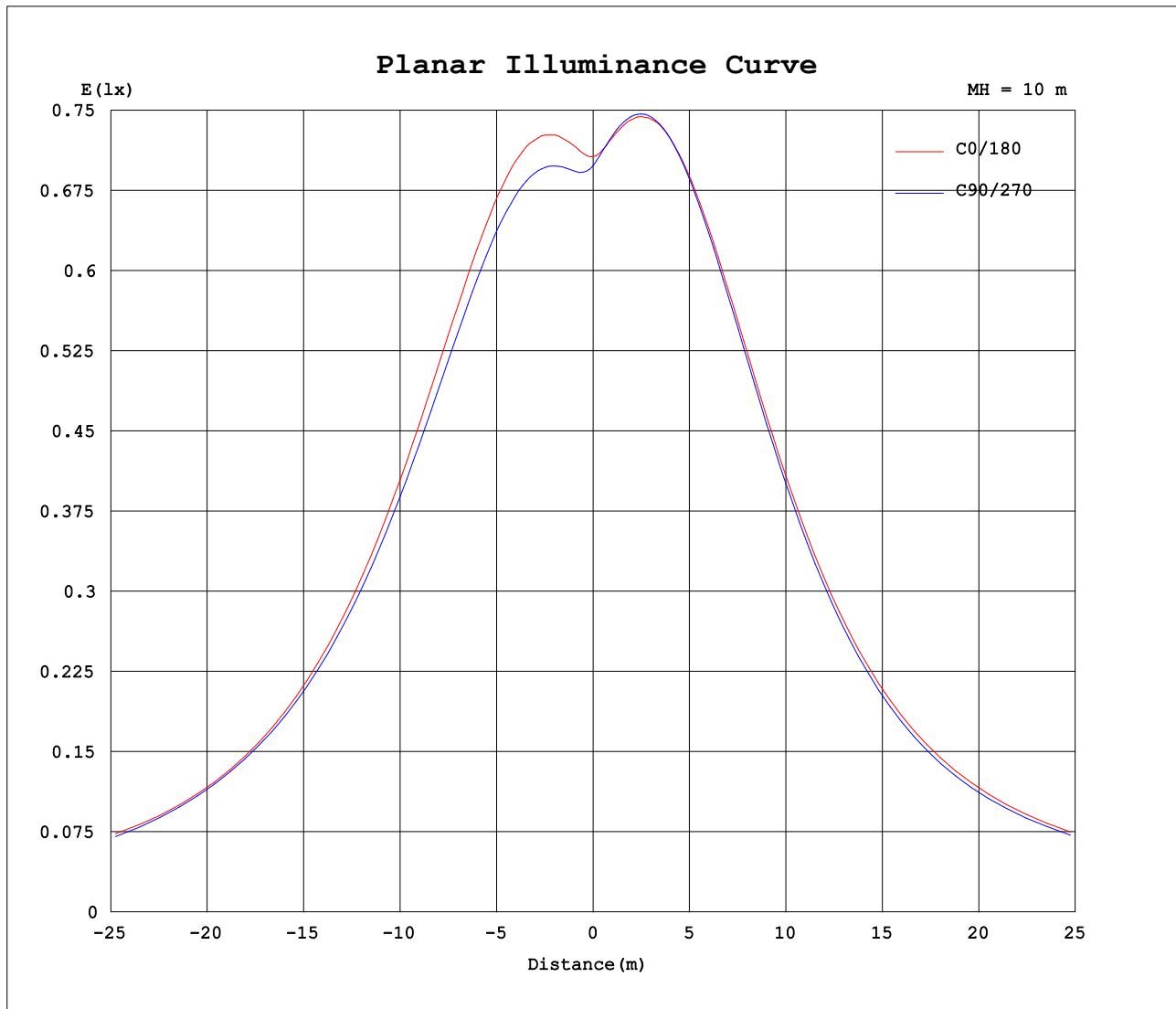


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:1254.22x1 lm		
NAME: RDFF-8-17W-95C-MVUD-BL 整灯 2700K	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	70.7	70.6	70.2	69.8	69.5	69.5	70.7	70.6	70.2	69.8	69.5	69.5						
5	72.3	71.5	70.8	70.1	70.1	70.6	73.0	73.3	73.1	73.1	72.8	72.3						
10	76.0	74.5	73.6	73.0	73.7	74.5	77.4	77.6	77.5	77.7	77.4	76.7						
15	80.6	78.5	77.4	77.1	78.4	79.4	82.5	82.7	82.5	82.8	82.8	81.9						
20	85.8	83.1	81.9	81.9	83.6	85.0	88.3	88.3	87.9	88.4	88.6	87.8						
25	91.4	88.2	86.8	87.3	89.3	91.0	94.3	94.0	93.5	94.1	94.6	93.9						
30	97.3	93.4	92.0	92.9	95.3	97.1	100	99.8	99.1	99.7	101	100						
35	103	98.7	97.4	98.6	101	103	106	105	104	105	106	107						
40	109	104	103	104	107	109	111	110	109	110	112	113						
45	114	109	108	110	112	113	115	114	113	113	116	118						
50	119	113	113	115	117	117	119	117	116	116	120	122						
55	123	116	117	120	121	121	122	120	117	118	122	126						
60	127	120	122	125	125	124	125	123	120	121	125	130						
65	133	123	127	130	130	129	133	131	126	128	134	138						
70	147	130	134	141	141	143	152	147	141	144	152	160						
75	157	140	146	159	162	162	169	160	152	153	161	170						
80	157	140	145	161	168	168	173	163	154	154	160	168						
85	144	129	133	149	160	163	165	157	148	146	150	154						
90	127	106	110	125	144	150	155	152	145	143	145	142						
95	93.1	85.5	82.0	115	137	147	156	157	149	139	135	137						
100	23.7	19.4	20.9	47.3	113	121	134	152	142	112	101	94.0						
105	32.8	12.6	15.3	29.6	72.6	84.8	121	135	124	97.6	77.5	69.8						
110	40.7	16.3	20.2	31.8	57.2	65.0	104	115	106	87.0	66.9	62.8						
115	49.4	23.8	26.1	40.9	56.1	60.8	97.1	107	99.3	83.8	67.0	63.9						
120	53.2	33.6	31.7	48.6	59.5	63.0	94.7	103	96.3	83.0	69.1	67.0						
125	60.1	42.1	36.5	53.7	62.9	65.9	92.8	99.1	93.6	82.0	70.9	69.6						
130	59.9	43.8	39.7	56.1	64.6	67.7	90.1	95.3	90.1	80.0	71.5	70.9						
135	53.5	40.6	41.0	55.0	64.5	68.2	86.6	90.7	85.5	77.0	70.8	70.4						
140	49.2	38.9	39.4	52.2	62.8	67.3	81.7	85.1	80.0	73.1	68.8	68.1						
145	42.8	36.4	36.3	48.2	59.7	64.8	75.6	78.8	74.3	68.6	65.7	64.4						
150	36.0	32.2	32.0	44.0	55.7	61.1	65.9	72.4	69.1	64.1	61.9	60.2						
155	30.4	25.7	26.6	40.3	51.4	56.9	59.8	64.7	64.0	60.1	58.0	55.9						
160	26.1	18.8	22.2	36.7	47.2	52.7	54.1	56.6	58.4	56.0	53.9	51.4						
165	22.3	11.4	19.8	33.3	43.1	48.4	48.1	49.3	52.3	51.7	49.9	47.1						
170	16.4	9.44	26.1	33.4	39.0	43.9	41.1	42.7	45.8	47.2	45.8	43.0						
175	20.5	27.2	32.9	35.2	36.9	39.9	34.0	37.0	40.1	42.5	42.0	39.8						
180	27.4	33.4	35.9	39.3	40.4	40.5	27.4	33.4	36.0	39.3	40.4	40.4						

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: