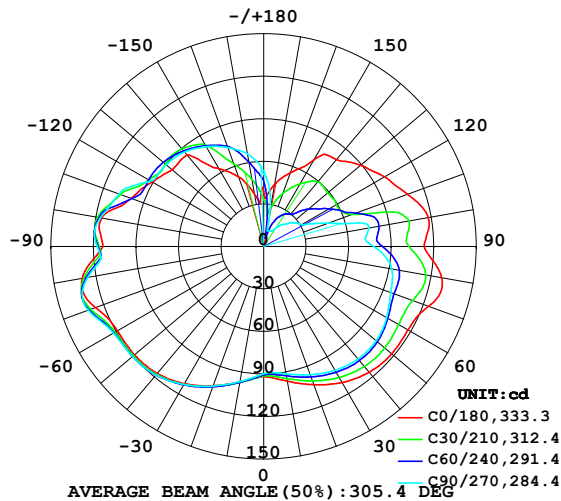


LUMINAIRE PHOTOMETRIC TEST REPORT

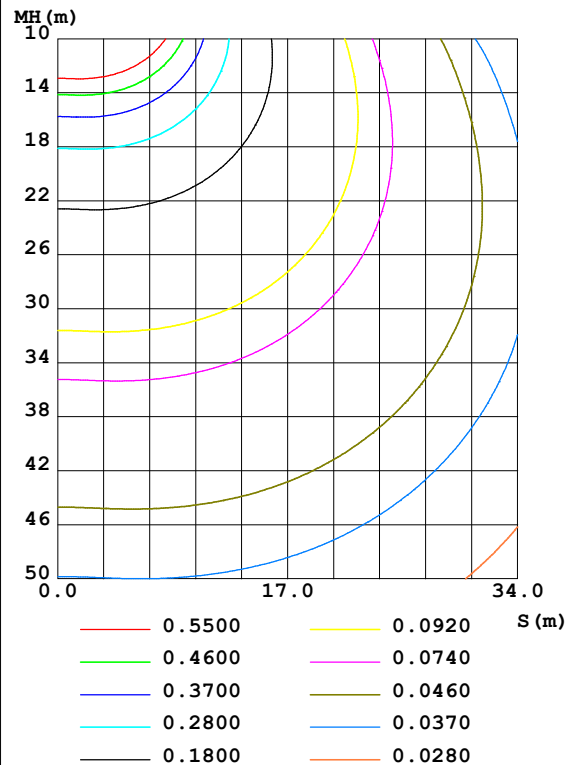
Test:U:120.5V I:0.1520A P:18.00W PF:0.9840 Freq:60.00Hz Lamp Flux:1195.95x1 lm		
NAME: RDFS-8-17W-95C-MVUD-BL 整灯 2700K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 66.44 lm/W			
MODEL		I _{max} (cd)	133.2	S/MH (C0/180)	1.87
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	1.92
RATED VOLTAGE (V)		TOTAL FLUX (lm)	1196.0	η UP, DN (C0-180)	15.9, 27.4
NOMINAL FLUX (lm)	1195.95	CIE CLASS	DIFFUSE	η UP, DN (C180-360)	25.2, 31.4
LAMPS INSIDE	1	η up (%)	41.2	CIBSE SHR NOM	2.00
TEST VOLTAGE (V)		η down (%)	58.8	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: 2025-09-25

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	96.50	93.72	91.24	91.14	96.92	97.44	96.75	95.35	0- 10	8.856	8.856	0.74,0.74
20	103.8	99.41	96.22	96.67	104.5	105.2	104.8	103.2	10- 20	27.91	36.77	3.07,3.07
30	110.8	104.6	100.8	101.9	111.8	112.6	112.5	110.6	20- 30	48.62	85.38	7.14,7.14
40	115.8	107.8	103.6	105.5	116.9	118.0	118.3	116.2	30- 40	69.42	154.8	12.9,12.9
50	117.9	108.1	103.5	106.2	119.0	120.4	120.8	118.7	40- 50	87.91	242.7	20.3,20.3
60	117.7	105.6	100.2	103.7	119.2	121.4	122.3	119.5	50- 60	102.0	344.7	28.8,28.8
70	123.7	104.8	95.34	101.9	126.2	130.4	131.7	128.5	60- 70	113.8	458.5	38.3,38.3
80	127.5	106.6	91.67	102.6	129.9	128.0	126.1	125.0	70- 80	125.5	584.0	48.8,48.8
90	113.1	93.10	77.69	87.30	113.4	116.5	117.4	115.3	80- 90	119.5	703.4	58.8,58.8
100	117.8	93.27	75.32	83.89	116.1	118.4	116.9	116.8	90-100	113.4	816.8	68.3,68.3
110	108.0	67.68	48.45	59.05	99.44	103.3	108.5	106.1	100-110	102.3	919.1	76.9,76.9
120	98.35	56.30	30.86	41.31	90.98	93.83	92.25	97.20	110-120	79.00	998.1	83.5,83.5
130	89.14	50.02	26.39	33.85	84.25	91.52	89.83	90.02	120-130	63.71	1062	88.8,88.8
140	80.06	44.59	20.16	36.87	84.24	88.97	87.05	84.27	130-140	51.69	1114	93.1,93.1
150	70.50	38.24	12.92	38.41	63.42	82.58	81.28	79.68	140-150	39.18	1153	96.4,96.4
160	55.45	28.07	11.81	38.04	52.43	68.68	74.33	73.68	150-160	25.48	1178	98.5,98.5
170	44.44	17.62	26.26	44.26	37.74	54.14	66.20	66.00	160-170	13.41	1192	99.6,99.6
180	38.85	39.77	53.79	58.27	38.97	39.82	50.59	58.31	170-180	4.361	1196	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 196.7 lm

%lum = 16.4%

%lamp = 16.4%

Conical surface Flux(120deg): 344.67 lm

%lum = 28.8%

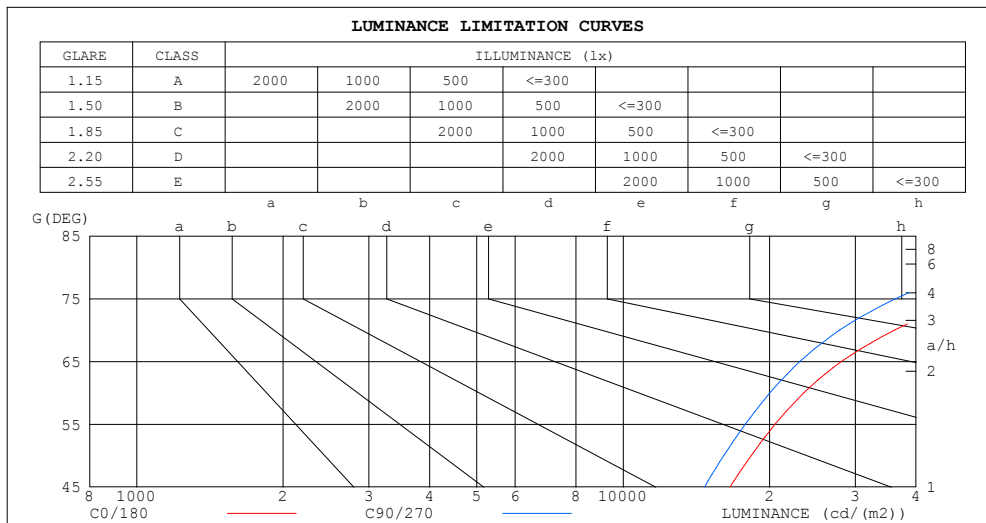
%lamp = 28.8%

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-09-25

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:0.1520A P:18.00W PF:0.9840 Freq:60.00Hz Lamp Flux:1195.95x1 lm		
NAME: RDFS-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	137729	99142
80	73408	52793
75	49742	36306
70	36178	27876
65	28119	23091
60	23532	20034
55	20534	17829
50	18336	16100
45	16585	14697

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-09-25

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:0.1520A P:18.00W PF:0.9840 Freq:60.00Hz Lamp Flux:1195.95x1 lm					
NAME: RDFS-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	.421	.239	.076	.401	.229	.073	.364	.209	.067	.330	.190	.061	.299	.173	.056	
2.0	.351	.193	.059	.333	.184	.057	.300	.167	.052	.268	.150	.047	.239	.135	.043	
3.0	.306	.163	.049	.290	.155	.047	.259	.140	.043	.230	.126	.039	.204	.113	.035	
4.0	.272	.141	.042	.257	.135	.040	.229	.121	.036	.202	.109	.033	.178	.097	.029	
5.0	.245	.125	.036	.231	.119	.035	.205	.107	.031	.181	.096	.028	.159	.085	.025	
6.0	.223	.112	.032	.210	.106	.031	.187	.096	.028	.164	.085	.025	.143	.075	.022	
7.0	.205	.101	.029	.193	.096	.027	.171	.086	.025	.150	.077	.022	.131	.068	.020	
8.0	.189	.092	.026	.178	.088	.025	.158	.079	.023	.139	.070	.020	.121	.062	.018	
9.0	.176	.085	.024	.166	.081	.023	.147	.073	.021	.129	.065	.018	.112	.057	.016	
10.0	.164	.079	.022	.155	.075	.021	.137	.067	.019	.120	.060	.017	.104	.052	.015	

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	.504	.504	.504	.431	.431	.431	.294	.294	.294	.169	.169	.169	.054	.054	.054	
1.0	.504	.472	.442	.432	.405	.380	.295	.278	.263	.170	.161	.153	.054	.052	.049	
2.0	.499	.450	.409	.427	.387	.354	.293	.268	.247	.169	.156	.145	.054	.050	.047	
3.0	.492	.435	.389	.421	.375	.338	.289	.261	.237	.167	.152	.140	.054	.049	.046	
4.0	.484	.423	.377	.415	.366	.327	.286	.255	.230	.165	.149	.136	.053	.049	.045	
5.0	.477	.414	.368	.409	.358	.320	.282	.250	.226	.163	.147	.134	.053	.048	.044	
6.0	.469	.406	.361	.403	.352	.315	.278	.246	.223	.161	.145	.132	.052	.047	.044	
7.0	.462	.400	.357	.398	.347	.311	.275	.243	.220	.160	.143	.131	.052	.047	.043	
8.0	.456	.395	.353	.392	.343	.308	.271	.241	.219	.158	.142	.130	.051	.047	.043	
9.0	.449	.390	.351	.387	.339	.306	.268	.238	.217	.156	.141	.130	.051	.046	.043	
10.0	.444	.386	.349	.382	.336	.304	.265	.236	.216	.155	.140	.129	.050	.046	.043	

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-09-25

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:0.1520A P:18.00W PF:0.9840 Freq:60.00Hz Lamp Flux:1195.95x1 lm											
NAME: RDFS-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	20.1	21.2	20.8	22.0	23.1	19.3	20.5	20.1	21.3	22.3	
	3H	23.4	24.5	24.2	25.3	26.4	22.3	23.3	23.1	24.2	25.2
	4H	25.4	26.5	26.3	27.3	28.4	24.0	25.0	24.8	25.8	26.9
	6H	27.6	28.6	28.5	29.4	30.5	25.9	26.8	26.7	27.7	28.8
	8H	28.8	29.7	29.6	30.6	31.7	26.9	27.8	27.7	28.7	29.8
	12H	30.0	30.9	30.9	31.8	32.9	28.1	29.0	28.9	29.8	30.9
4H	2H	20.9	21.9	21.7	22.7	23.8	20.4	21.4	21.2	22.2	23.3
	3H	24.4	25.3	25.3	26.2	27.3	23.4	24.3	24.3	25.2	26.3
	4H	26.6	27.4	27.4	28.3	29.4	25.3	26.1	26.1	27.0	28.1
	6H	28.9	29.7	29.8	30.6	31.7	27.3	28.1	28.2	29.0	30.1
	8H	30.2	30.9	31.1	31.8	32.9	28.4	29.1	29.3	30.0	31.2
	12H	31.5	32.2	32.4	33.1	34.3	29.7	30.3	30.6	31.3	32.4
8H	4H	27.1	27.8	28.0	28.8	29.9	26.1	26.8	27.0	27.7	28.9
	6H	29.8	30.4	30.7	31.3	32.5	28.4	29.0	29.3	29.9	31.1
	8H	31.2	31.7	32.1	32.7	33.9	29.7	30.2	30.6	31.2	32.4
	12H	32.8	33.3	33.7	34.2	35.5	31.1	31.6	32.1	32.6	33.8
12H	4H	27.3	27.9	28.2	28.8	30.0	26.4	27.1	27.3	28.0	29.2
	6H	30.0	30.5	30.9	31.5	32.7	28.8	29.4	29.8	30.3	31.5
	8H	31.5	32.0	32.5	33.0	34.2	30.2	30.7	31.2	31.6	32.9
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 / - 0.3					
2.0H	+ 0.3 / - 0.4					+ 0.3 / - 0.4					

CIE Pub.117, 1196 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 0.6$)

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-09-25

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:

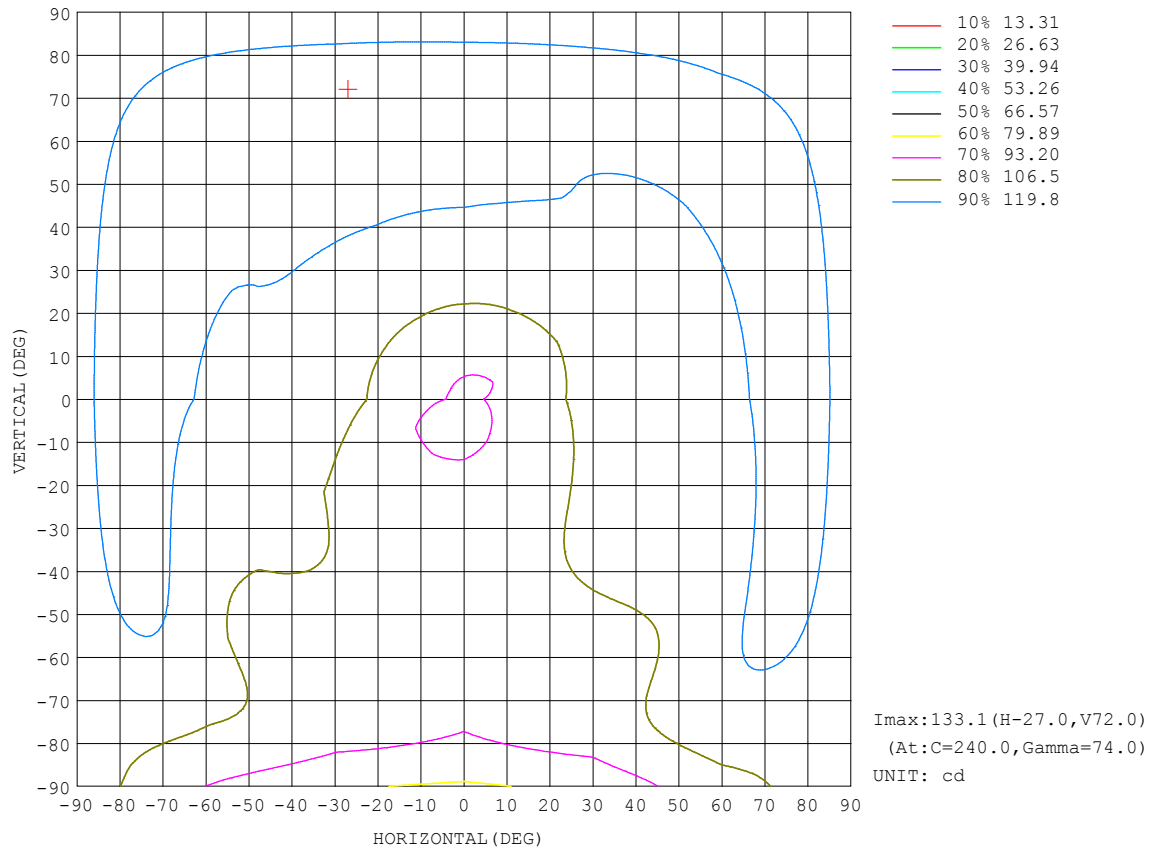
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γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.750m [K=1.0000]
Remarks:

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ISOCANDELA DIAGRAM

Test:U:120.5V I:0.1520A P:18.00W PF:0.9840 Freq:60.00Hz Lamp Flux:1195.95x1 lm		
NAME: RDFS-8-17W-95C-MVUD-BL 整灯 2700K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:

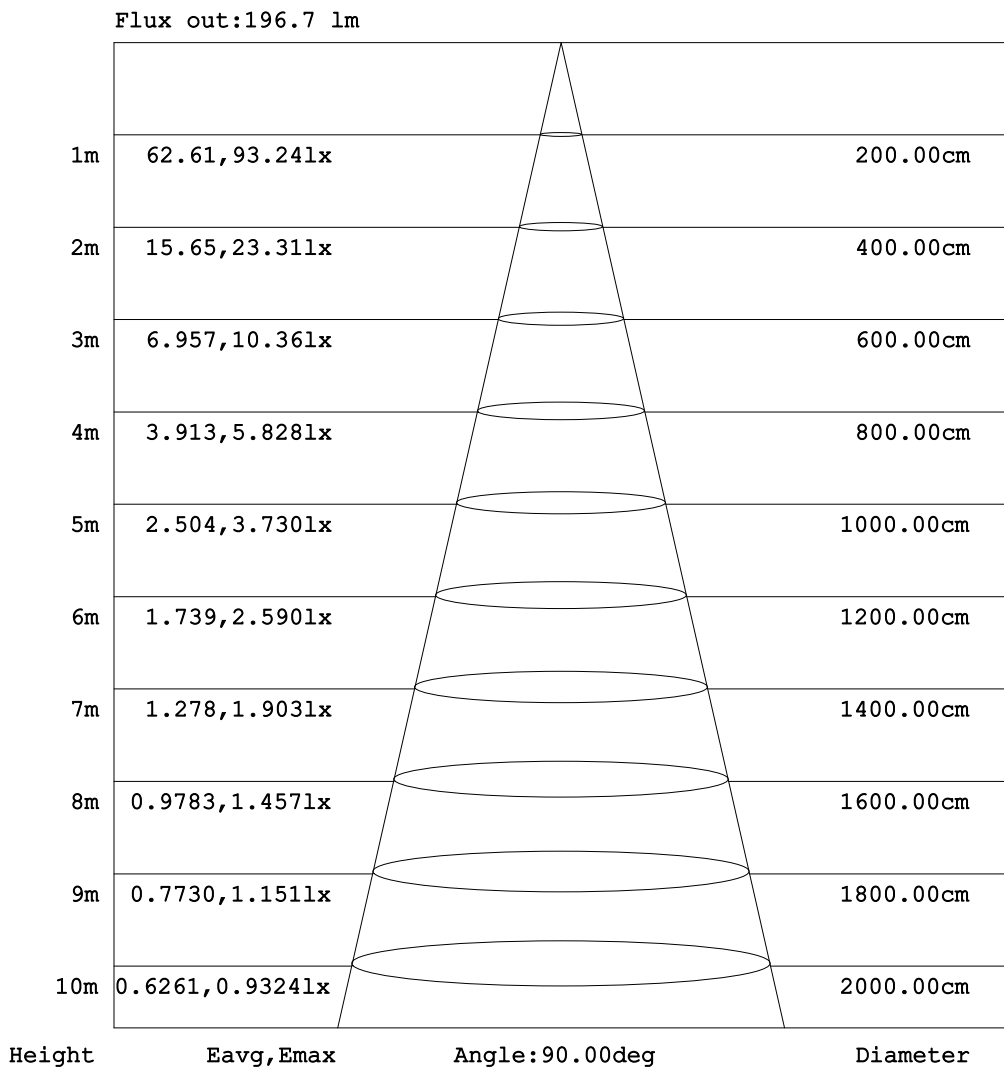


C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-09-25

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:0.1520A P:18.00W PF:0.9840 Freq:60.00Hz Lamp Flux:1195.95x1 lm		
NAME: RDFS-8-17W-95C-MVUD-BL 整灯 2700K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:

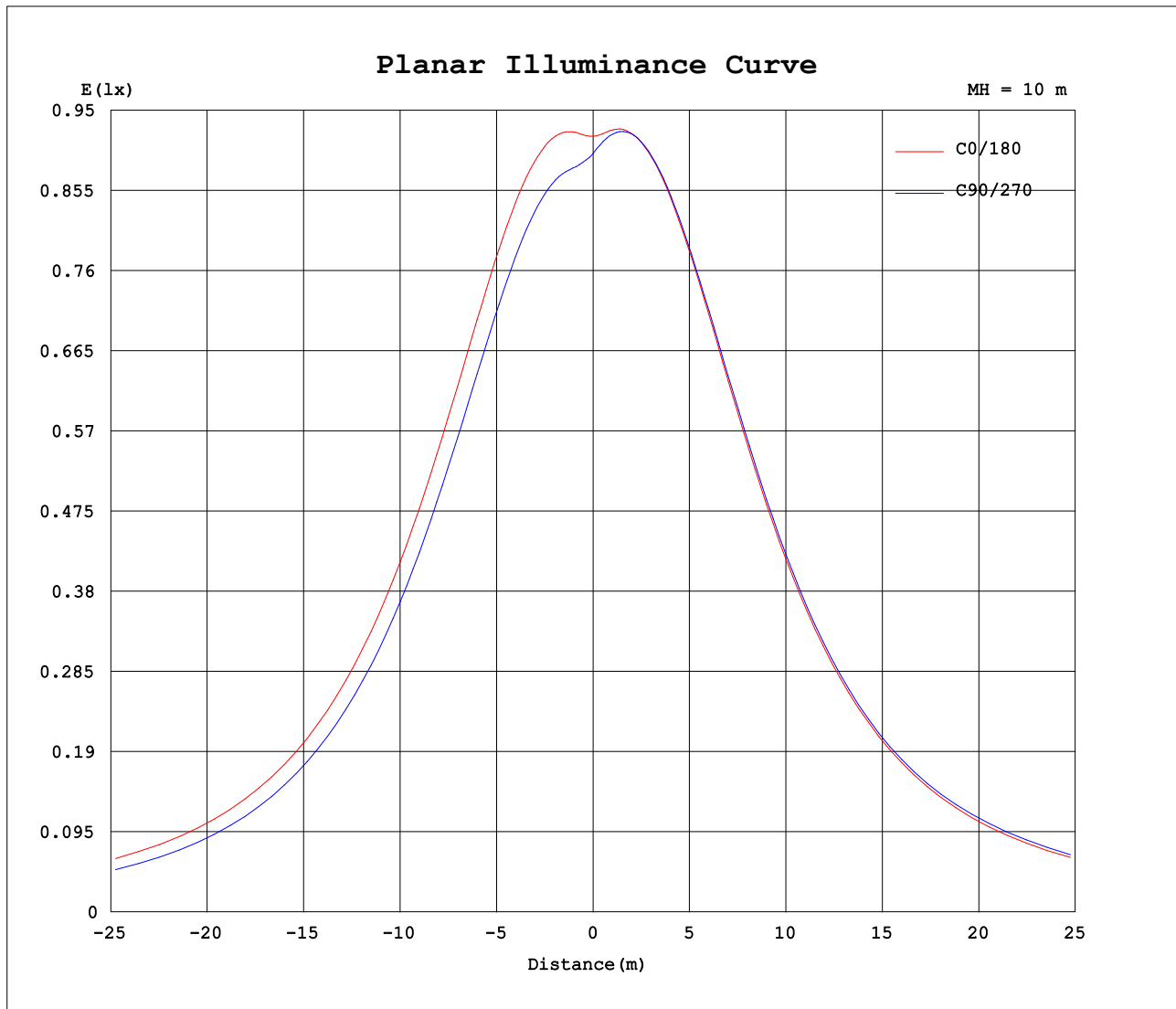


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2025-09-25

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: 2025-09-25

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:0.1520A P:18.00W PF:0.9840 Freq:60.00Hz Lamp Flux:1195.95x1 lm		
NAME: RDFS-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	91.9	91.5	90.7	89.9	89.2	88.7	91.9	91.5	90.7	89.9	89.2	88.7						
5	93.4	92.0	90.6	89.4	88.8	88.9	93.7	94.0	93.7	93.0	92.3	91.3						
10	96.5	94.7	92.7	91.2	90.9	91.4	96.9	97.5	97.4	96.8	95.9	94.8						
15	100	97.8	95.3	93.7	93.4	94.3	101	101	101	101	99.9	98.6						
20	104	101	97.9	96.2	96.0	97.3	105	105	105	105	104	103						
25	107	104	100	98.7	98.5	100	108	109	109	109	108	106						
30	111	107	102	101	101	103	112	112	113	112	111	110						
35	114	109	104	103	103	105	115	115	116	116	115	113						
40	116	110	105	104	104	107	117	118	118	118	117	115						
45	117	111	105	104	104	108	118	119	120	120	119	117						
50	118	111	105	103	104	108	119	120	121	121	120	118						
55	118	111	103	102	103	108	119	120	121	121	120	118						
60	118	110	101	100	101	106	119	121	122	122	121	118						
65	119	110	99.0	97.6	99.1	105	121	124	125	126	124	121						
70	124	112	97.9	95.3	97.8	106	126	130	131	132	130	127						
75	129	116	98.3	94.0	97.8	109	131	133	133	133	131	129						
80	127	116	97.1	91.7	96.1	109	130	129	127	126	125	125						
85	120	111	92.0	86.4	90.6	103	122	119	117	116	116	116						
90	113	103	83.7	77.7	81.5	93.1	113	116	117	117	116	114						
95	116	102	80.2	72.2	75.9	89.3	116	120	120	120	119	118						
100	118	104	82.6	75.3	77.6	90.2	116	119	118	117	117	117						
105	114	94.6	80.7	63.1	71.9	79.2	107	113	109	112	112	112						
110	108	66.1	69.2	48.5	54.5	63.6	99.4	107	99.1	109	105	107						
115	102	59.9	60.2	38.3	41.8	52.6	95.5	99.1	93.9	101	98.1	106						
120	98.3	59.3	53.3	30.9	35.6	47.0	91.0	93.8	93.8	92.2	93.2	101						
125	93.3	59.4	46.3	29.0	30.9	43.8	87.5	90.2	93.5	90.5	90.0	95.4						
130	89.1	58.9	41.1	26.4	25.4	42.3	84.2	90.6	92.5	89.8	89.0	91.0						
135	84.4	59.7	34.7	22.4	25.9	44.0	84.4	91.4	90.5	88.8	88.1	86.4						
140	80.1	59.5	29.7	20.2	26.9	46.8	84.2	89.9	88.1	87.1	87.0	81.6						
145	78.7	55.9	28.2	16.8	27.7	48.3	71.3	87.1	85.3	84.3	84.7	79.7						
150	70.5	51.0	25.5	12.9	28.2	48.6	63.4	83.1	82.1	81.3	81.6	77.8						
155	60.9	45.6	21.7	12.1	28.6	48.1	58.0	71.2	78.8	78.0	78.1	76.0						
160	55.5	40.0	16.1	11.8	29.0	47.1	52.4	62.1	75.2	74.3	74.2	73.1						
165	50.2	33.7	8.80	11.7	29.2	45.4	45.4	55.0	68.8	70.5	70.2	69.7						
170	44.4	26.6	8.60	26.3	41.5	47.0	37.7	48.0	60.3	66.2	66.2	65.8						
175	37.8	25.6	29.9	43.0	51.3	55.0	30.3	40.8	52.9	60.6	62.1	61.8						
180	38.9	33.5	46.0	53.8	57.4	59.1	39.0	33.3	46.3	50.6	57.7	58.9						

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-09-25

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: