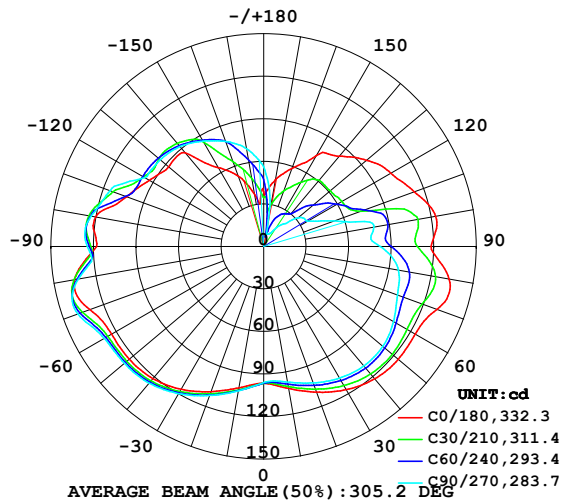


LUMINAIRE PHOTOMETRIC TEST REPORT

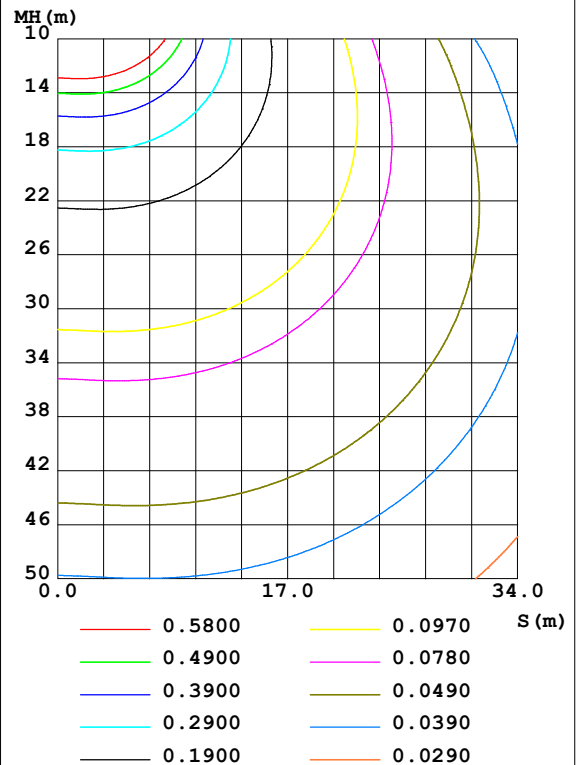
Test:U:120.6V I:0.1440A P:17.10W PF:0.9830 Freq:60.00Hz Lamp Flux:1264.73x1 lm		
NAME: RDFS-8-17W-95C-MVUD-BL 整灯 3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 73.96 lm/W			
MODEL		I _{max} (cd)	140.7	S/MH (C0/180)	1.86
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	1.92
RATED VOLTAGE (V)		TOTAL FLUX (lm)	1264.7	η UP, DN (C0-180)	16.0, 27.5
NOMINAL FLUX (lm)	1264.73	CIE CLASS	DIFFUSE	η UP, DN (C180-360)	25.2, 31.3
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	101.7	99.53	97.18	97.41	101.3	103.0	103.4	102.3	0- 10	9.414	9.414	0.74,0.74
20	109.4	105.7	102.4	103.1	109.0	111.0	111.9	110.7	10- 20	29.65	39.06	3.09,3.09
30	116.7	111.2	107.2	108.6	116.3	118.7	119.9	118.6	20- 30	51.60	90.66	7.17,7.17
40	121.9	114.7	110.0	112.2	121.6	124.3	125.8	124.5	30- 40	73.62	164.3	13,13
50	123.9	115.0	109.7	112.8	123.8	126.7	128.3	126.9	40- 50	93.14	257.4	20.4,20.4
60	123.5	112.3	105.8	109.9	123.9	127.8	129.8	127.6	50- 60	107.9	365.3	28.9,28.9
70	130.0	111.8	100.5	107.4	130.4	136.8	139.4	136.8	60- 70	120.3	485.6	38.4,38.4
80	132.8	113.7	96.53	107.8	135.4	134.8	132.8	132.4	70- 80	132.3	617.9	48.9,48.9
90	118.2	99.22	82.12	91.76	117.9	122.4	124.4	122.7	80- 90	126.0	743.8	58.8,58.8
100	123.2	99.70	78.98	87.82	120.4	124.7	123.5	124.1	90-100	119.6	863.4	68.3,68.3
110	113.1	74.35	52.83	63.05	102.8	108.4	115.3	113.2	100-110	108.3	971.7	76.8,76.8
120	103.6	61.73	35.81	44.30	93.25	98.36	97.07	104.0	110-120	83.94	1056	83.5,83.5
130	94.71	53.44	31.53	36.41	87.47	96.64	95.21	96.39	120-130	67.96	1124	88.8,88.8
140	83.24	45.79	20.42	39.53	86.47	93.88	91.99	90.13	130-140	54.82	1178	93.2,93.2
150	73.84	39.33	11.98	41.06	64.32	85.85	85.79	84.87	140-150	41.00	1219	96.4,96.4
160	58.72	30.37	9.508	40.76	52.94	71.21	78.89	78.56	150-160	26.67	1246	98.5,98.5
170	47.72	18.47	21.80	47.37	37.16	55.32	70.04	70.33	160-170	14.06	1260	99.6,99.6
180	38.61	40.69	56.22	62.14	38.49	40.77	55.98	62.15	170-180	4.547	1265	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 208.68 lm

%lum = 16.5%

%lamp = 16.5%

Conical surface Flux(120deg): 365.32 lm

%lum = 28.9%

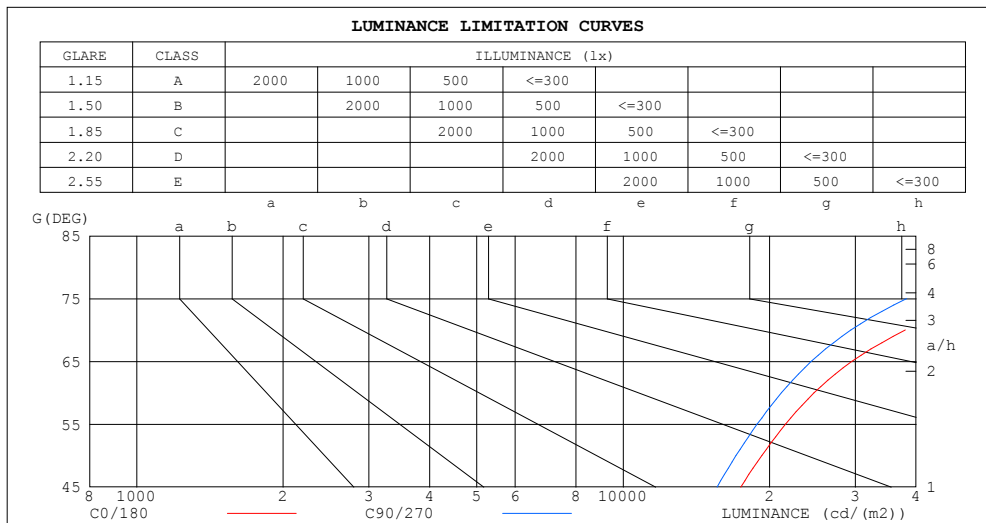
%lamp = 28.9%

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:

LUMINANCE LIMITATION CURVES

Test:U:120.6V I:0.1440A P:17.10W PF:0.9830 Freq:60.00Hz Lamp Flux:1264.73x1 lm		
NAME: RDFS-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	143053	104501
80	76491	55591
75	52056	38228
70	38011	29380
65	29532	24361
60	24699	21158
55	21570	18861
50	19275	17062
45	17447	15593

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:120.6V I:0.1440A P:17.10W PF:0.9830 Freq:60.00Hz Lamp Flux:1264.73x1 lm					
NAME: RDFS-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	.421	.239	.076	.401	.229	.073	.364	.209	.067	.329	.190	.061	.298	.173	.056		
2.0	.351	.192	.059	.333	.183	.057	.299	.166	.052	.268	.150	.047	.239	.135	.043		
3.0	.306	.163	.049	.289	.155	.047	.258	.140	.043	.230	.126	.039	.203	.113	.035		
4.0	.272	.141	.042	.257	.134	.040	.229	.121	.036	.202	.109	.033	.178	.097	.029		
5.0	.245	.125	.036	.231	.119	.035	.205	.107	.031	.181	.096	.028	.158	.085	.025		
6.0	.223	.112	.032	.210	.106	.031	.186	.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	.120	.062	.018		
9.0	.176	.085	.024	.166	.081	.023	.147	.072	.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	.362	.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	.387	.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:120.6V I:0.1440A P:17.10W PF:0.9830 Freq:60.00Hz Lamp Flux:1264.73x1 lm											
NAME: RDFS-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	20.1	21.2	20.8	22.0	23.0	19.3	20.5	20.1	21.3	22.3	
	3H	23.4	24.5	24.2	25.3	26.4	22.3	23.4	23.1	24.2	25.2
	4H	25.4	26.4	26.2	27.3	28.3	24.0	25.0	24.8	25.8	26.9
	6H	27.6	28.5	28.4	29.4	30.5	25.9	26.8	26.7	27.7	28.8
	8H	28.7	29.6	29.6	30.5	31.6	26.9	27.8	27.8	28.7	29.8
	12H	30.0	30.8	30.8	31.7	32.8	28.1	29.0	28.9	29.8	30.9
4H	2H	20.9	21.9	21.7	22.8	23.8	20.4	21.4	21.2	22.3	23.3
	3H	24.4	25.3	25.3	26.2	27.3	23.5	24.4	24.3	25.2	26.3
	4H	26.6	27.4	27.4	28.3	29.4	25.3	26.1	26.2	27.0	28.1
	6H	28.9	29.6	29.8	30.5	31.7	27.4	28.1	28.2	29.0	30.1
	8H	30.1	30.8	31.0	31.7	32.9	28.5	29.2	29.4	30.1	31.2
	12H	31.5	32.1	32.4	33.0	34.2	29.7	30.3	30.6	31.3	32.5
8H	4H	27.2	27.8	28.1	28.8	29.9	26.2	26.9	27.1	27.8	29.0
	6H	29.8	30.3	30.7	31.3	32.5	28.5	29.1	29.4	30.0	31.2
	8H	31.2	31.7	32.1	32.7	33.9	29.7	30.3	30.7	31.2	32.4
	12H	32.7	33.2	33.7	34.2	35.4	31.2	31.6	32.1	32.6	33.8
12H	4H	27.3	27.9	28.2	28.8	30.0	26.5	27.1	27.4	28.0	29.2
	6H	30.0	30.5	30.9	31.5	32.7	28.9	29.4	29.8	30.3	31.6
	8H	31.5	32.0	32.5	33.0	34.2	30.3	30.7	31.2	31.7	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, 1265 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:2025-09-25

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:

UTILIZATION FACTORS TABLE

Test:U:120.6V I:0.1440A P:17.10W PF:0.9830 Freq:60.00Hz Lamp Flux:1264.73x1 lm		
NAME: RDFS-8-17W-95C-MVUD-BL 整灯 3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:

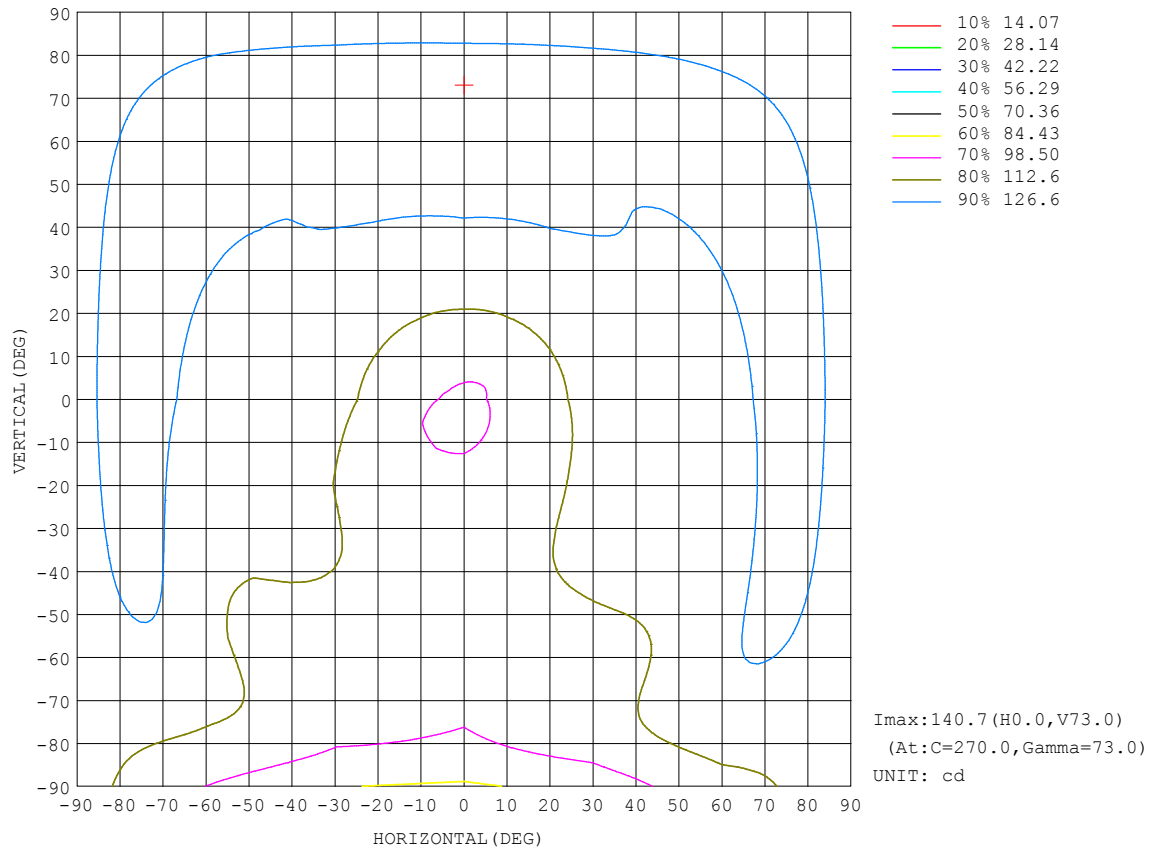
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	38	25	18	36	24	17	33	23	16	9
0.80	47	33	24	44	31	23	40	29	22	13
1.00	54	40	31	51	38	29	45	37	27	16
1.25	61	47	37	57	44	35	50	40	32	20
1.50	66	52	42	62	49	40	54	44	37	23
2.00	74	61	51	69	57	49	60	51	44	27
2.50	79	67	57	73	63	54	64	55	49	30
3.00	83	72	63	77	67	59	67	59	53	33
4.00	88	78	71	82	74	67	71	64	59	37
5.00	91	83	76	85	78	71	74	68	63	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:2025-09-25

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:

ISOCANDELA DIAGRAM

Test:U:120.6V I:0.1440A P:17.10W PF:0.9830 Freq:60.00Hz Lamp Flux:1264.73x1 lm		
NAME: RDFS-8-17W-95C-MVUD-BL 整灯 3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:

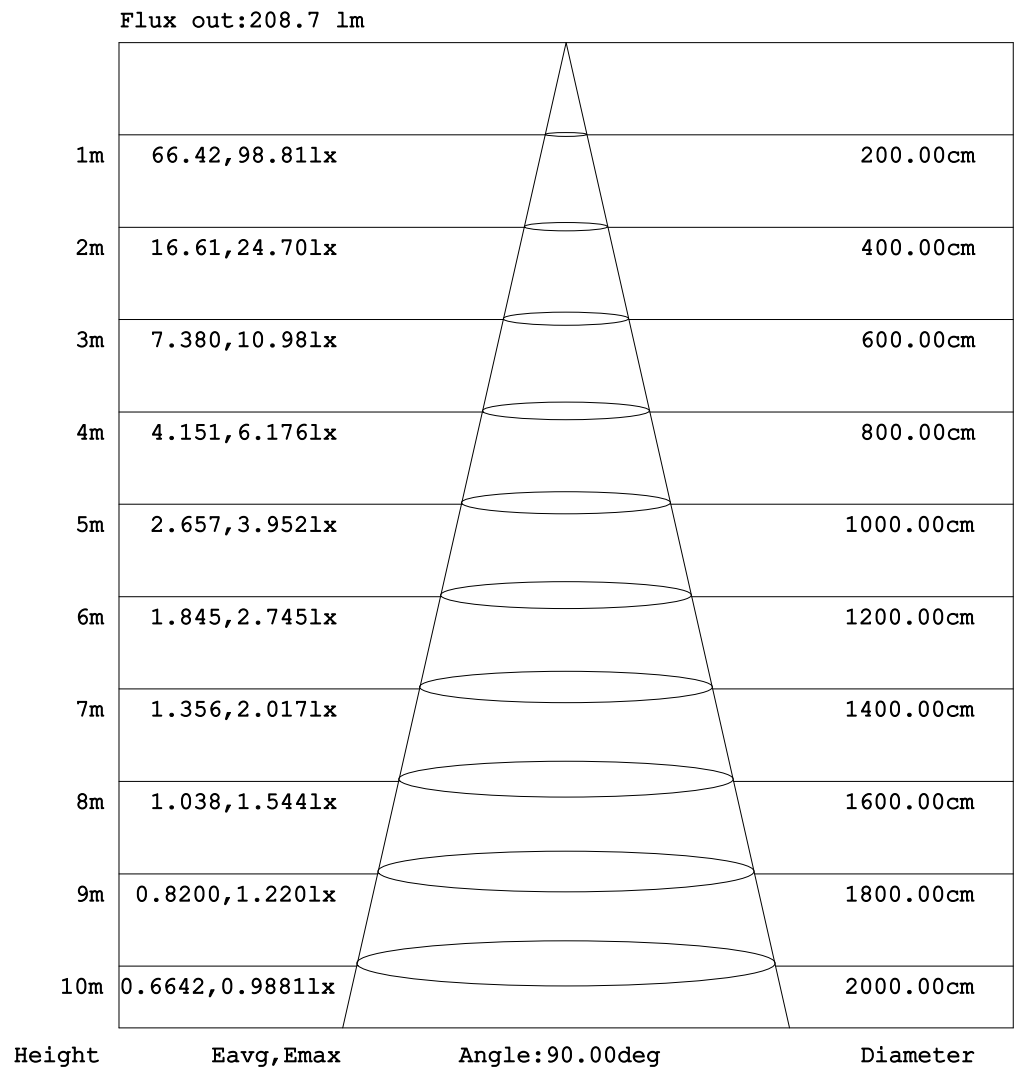


C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-09-25

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:120.6V I:0.1440A P:17.10W PF:0.9830 Freq:60.00Hz Lamp Flux:1264.73x1 lm		
NAME: RDFS-8-17W-95C-MVUD-BL 整灯 3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:

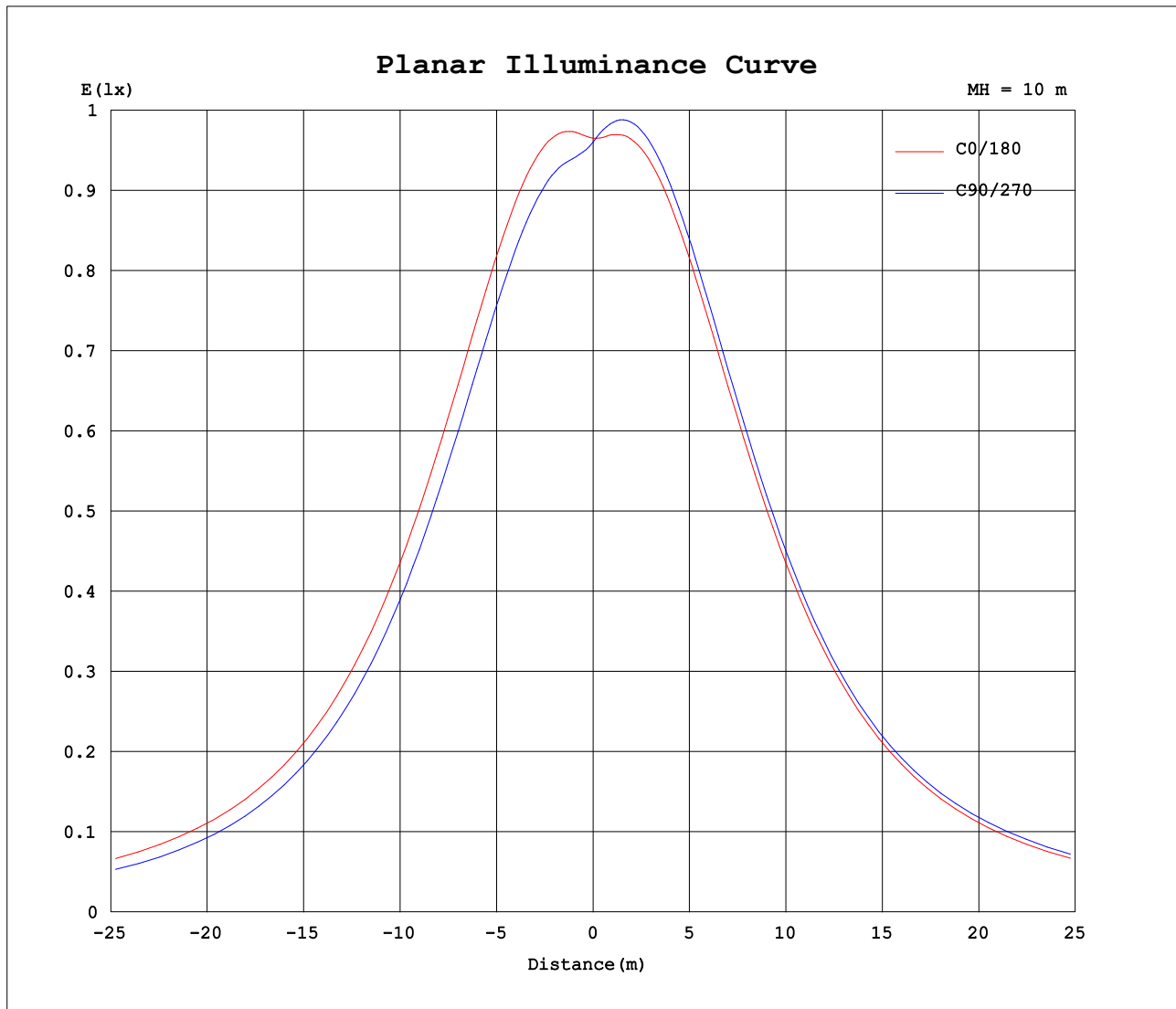


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

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:120.6V I:0.1440A P:17.10W PF:0.9830 Freq:60.00Hz Lamp Flux:1264.73x1 lm		
NAME: RDFS-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	96.5	96.7	96.5	96.0	95.5	95.2	96.5	96.7	96.5	96.0	95.5	95.2						
5	98.4	97.4	96.4	95.3	94.9	95.3	98.0	99.1	99.5	99.4	98.9	98.1						
10	102	100	98.7	97.2	97.0	97.8	101	103	103	103	103	102						
15	105	104	101	99.7	99.6	101	105	107	107	108	107	106						
20	109	107	104	102	102	104	109	111	112	112	111	110						
25	113	110	107	105	105	107	113	114	116	116	115	114						
30	117	113	109	107	107	110	116	118	119	120	119	118						
35	120	116	111	109	109	112	119	121	122	123	123	121						
40	122	117	112	110	110	114	122	124	125	126	125	124						
45	123	118	112	110	111	115	123	125	127	128	127	125						
50	124	118	112	110	110	115	124	126	127	128	128	126						
55	124	118	110	108	109	114	124	126	128	129	128	126						
60	123	117	108	106	107	113	124	127	129	130	129	126						
65	125	117	106	103	105	111	125	130	132	134	132	129						
70	130	119	105	100	103	112	130	136	138	139	138	136						
75	135	123	105	98.9	102	115	136	139	140	140	139	138						
80	133	123	104	96.5	100	115	135	136	134	133	132	132						
85	125	117	98.9	91.1	94.6	109	127	126	123	122	122	123						
90	118	108	90.0	82.1	85.0	98.5	118	122	123	124	123	122						
95	122	108	86.4	75.9	78.5	94.0	120	126	126	127	126	126						
100	123	110	88.9	79.0	80.6	95.0	120	125	124	124	124	125						
105	119	103	87.3	67.2	75.5	84.1	110	119	114	119	119	119						
110	113	72.9	75.8	52.8	58.5	67.6	103	113	104	115	111	115						
115	108	65.2	66.1	42.6	45.2	55.9	98.0	103	98.9	107	105	113						
120	104	63.8	59.7	35.8	38.5	50.1	93.2	98.1	98.6	97.1	99.2	109						
125	100	62.0	53.4	34.8	33.7	46.7	89.7	94.9	98.2	95.9	95.9	103						
130	94.7	61.3	45.6	31.5	28.0	44.9	87.5	96.3	96.9	95.2	95.0	97.8						
135	89.1	61.0	38.8	24.0	28.4	47.1	88.3	96.8	95.1	94.0	94.1	92.8						
140	83.2	61.0	30.6	20.4	28.8	50.3	86.5	94.9	92.8	92.0	92.7	87.6						
145	79.8	57.8	28.3	16.8	29.6	51.6	72.0	91.8	90.0	89.2	89.7	85.6						
150	73.8	52.2	26.5	12.0	30.1	52.0	64.3	85.1	86.6	85.8	86.2	83.6						
155	64.5	46.7	23.6	10.2	30.6	51.5	58.8	72.2	83.2	82.3	82.6	81.7						
160	58.7	41.8	18.9	9.51	31.0	50.5	52.9	63.7	78.8	78.9	78.5	78.6						
165	53.2	36.3	11.4	9.24	31.2	48.7	45.4	56.4	70.3	74.9	74.2	74.9						
170	47.7	29.8	7.15	21.8	44.2	50.5	37.2	48.7	61.9	70.0	69.9	70.8						
175	41.4	26.7	29.1	42.8	54.8	59.1	30.7	41.1	54.5	63.5	65.4	66.5						
180	38.6	34.4	47.0	56.2	60.8	63.5	38.5	34.4	47.2	56.0	60.8	63.5						

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: