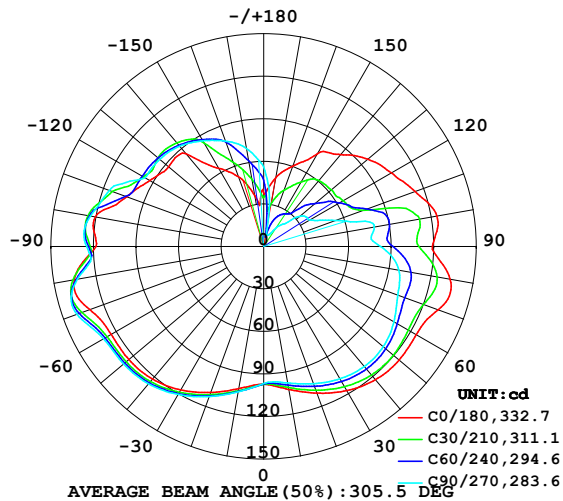


LUMINAIRE PHOTOMETRIC TEST REPORT

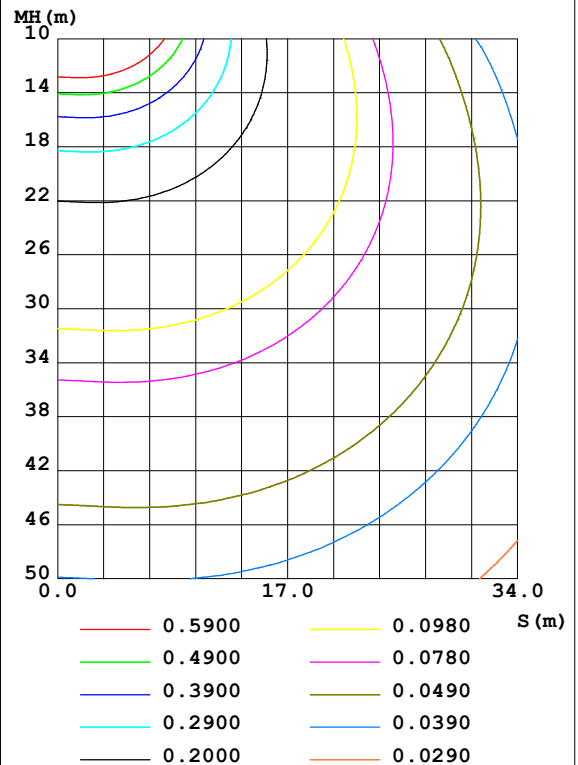
Test:U:120.6V I:0.1450A P:17.20W PF:0.9830 Freq:60.00Hz Lamp Flux:1271.53x1 lm		
NAME: RDFS-8-17W-95C-MVUD-BL 整灯 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 73.93 lm/W			
MODEL		I _{max} (cd)	141.3	S/MH (C0/180)	1.86
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	1.91
RATED VOLTAGE (V)		TOTAL FLUX (lm)	1271.5	η UP, DN (C0-180)	16.1, 27.5
NOMINAL FLUX (lm)	1271.53	CIE CLASS	DIFFUSE	η UP, DN (C180-360)	25.1, 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	102.4	100.2	97.79	97.95	101.8	103.6	104.1	102.9	0- 10	9.473	9.473	0.75,0.75
20	110.1	106.4	103.0	103.7	109.6	111.7	112.6	111.4	10- 20	29.83	39.30	3.09,3.09
30	117.4	112.0	107.8	109.1	116.9	119.4	120.6	119.3	20- 30	51.91	91.21	7.17,7.17
40	122.7	115.6	110.5	112.6	122.1	125.0	126.5	125.1	30- 40	74.03	165.2	13,13
50	124.7	115.9	110.1	113.1	124.2	127.3	129.0	127.6	40- 50	93.62	258.9	20.4,20.4
60	124.3	113.3	106.1	110.1	124.2	128.4	130.5	128.2	50- 60	108.4	367.3	28.9,28.9
70	130.9	112.9	100.8	107.4	130.6	137.5	140.1	137.5	60- 70	120.8	488.1	38.4,38.4
80	133.5	114.8	96.84	107.7	135.7	135.5	133.3	133.1	70- 80	132.9	621.0	48.8,48.8
90	118.9	100.3	82.41	91.53	118.2	123.0	124.9	123.2	80- 90	126.5	747.5	58.8,58.8
100	124.0	100.9	79.20	87.62	120.6	125.3	124.1	124.8	90-100	120.2	867.7	68.2,68.2
110	113.6	76.29	53.89	63.11	102.8	108.6	115.8	113.9	100-110	108.9	976.6	76.8,76.8
120	104.1	63.18	37.52	44.58	92.95	98.62	96.96	104.6	110-120	84.53	1061	83.5,83.5
130	95.85	54.72	33.30	36.65	87.67	97.22	95.72	96.94	120-130	68.51	1130	88.8,88.8
140	84.67	45.95	20.46	39.88	85.53	94.32	92.39	90.46	130-140	55.29	1185	93.2,93.2
150	75.44	39.38	11.87	41.39	63.81	85.66	86.07	85.33	140-150	41.15	1226	96.4,96.4
160	60.48	30.84	8.646	41.10	52.41	70.92	79.18	79.12	150-160	26.78	1253	98.5,98.5
170	49.43	18.71	18.94	47.78	36.46	54.77	70.25	70.97	160-170	14.14	1267	99.6,99.6
180	37.74	40.66	56.01	62.81	37.61	40.74	56.09	62.82	170-180	4.543	1272	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 209.87 lm

%lum = 16.5%

%lamp = 16.5%

Conical surface Flux(120deg): 367.29 lm

%lum = 28.9%

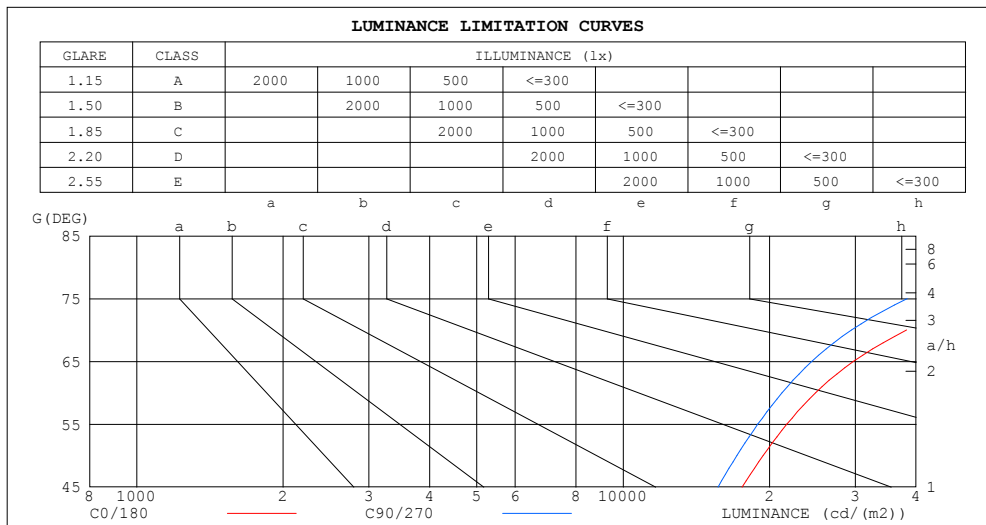
%lamp = 28.9%

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:0.1450A P:17.20W PF:0.9830 Freq:60.00Hz Lamp Flux:1271.53x1 lm		
NAME: RDFS-8-17W-95C-MVUD-BL 整灯 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	143767	104860
80	76877	55767
75	52383	38343
70	38260	29458
65	29736	24420
60	24863	21221
55	21711	18923
50	19401	17131
45	17561	15663

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:0.1450A P:17.20W PF:0.9830 Freq:60.00Hz Lamp Flux:1271.53x1 lm					
NAME: RDFS-8-17W-95C-MVUD-BL 整灯 4000K			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	.420	.239	.076	.401	.228	.073	.363	.208	.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	.112	.035	
4.0	.272	.141	.042	.257	.134	.040	.228	.121	.036	.202	.109	.033	.178	.097	.029	
5.0	.245	.125	.036	.231	.119	.035	.205	.107	.031	.181	.095	.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	.064	.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	.505	.472	.442	.432	.405	.381	.295	.279	.263	.170	.161	.153	.054	.052	.049	
2.0	.499	.450	.410	.427	.388	.354	.293	.268	.247	.169	.156	.145	.054	.050	.047	
3.0	.492	.435	.390	.422	.375	.338	.289	.261	.237	.167	.152	.140	.054	.049	.046	
4.0	.484	.423	.377	.416	.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	.407	.362	.403	.352	.315	.278	.247	.223	.161	.145	.132	.052	.047	.044	
7.0	.462	.400	.357	.398	.347	.311	.275	.243	.221	.160	.143	.131	.052	.047	.043	
8.0	.456	.395	.354	.392	.343	.308	.271	.241	.219	.158	.142	.130	.051	.047	.043	
9.0	.450	.391	.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:0.1450A P:17.20W PF:0.9830 Freq:60.00Hz Lamp Flux:1271.53x1 lm											
NAME: RDFS-8-17W-95C-MVUD-BL 整灯 4000K						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	21.3	20.9	22.1	23.1	19.4	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	28.4	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	27.7	28.7	29.8
	12H	30.0	30.8	30.8	31.7	32.8	28.1	28.9	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	25.3	26.4
	4H	26.6	27.4	27.4	28.3	29.4	25.3	26.1	26.2	27.0	28.2
	6H	28.9	29.6	29.8	30.5	31.7	27.4	28.1	28.3	29.0	30.2
	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	27.9	28.1	28.8	29.9	26.2	26.9	27.1	27.8	29.0
	6H	29.8	30.4	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	29.8	30.3	30.7	31.2	32.5
	12H	32.8	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	28.9	30.1	26.5	27.1	27.4	28.1	29.2
	6H	30.0	30.5	30.9	31.5	32.7	28.9	29.4	29.8	30.4	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, 1272 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:0.1450A P:17.20W PF:0.9830 Freq:60.00Hz Lamp Flux:1271.53x1 lm		
NAME: RDFS-8-17W-95C-MVUD-BL 整灯 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:

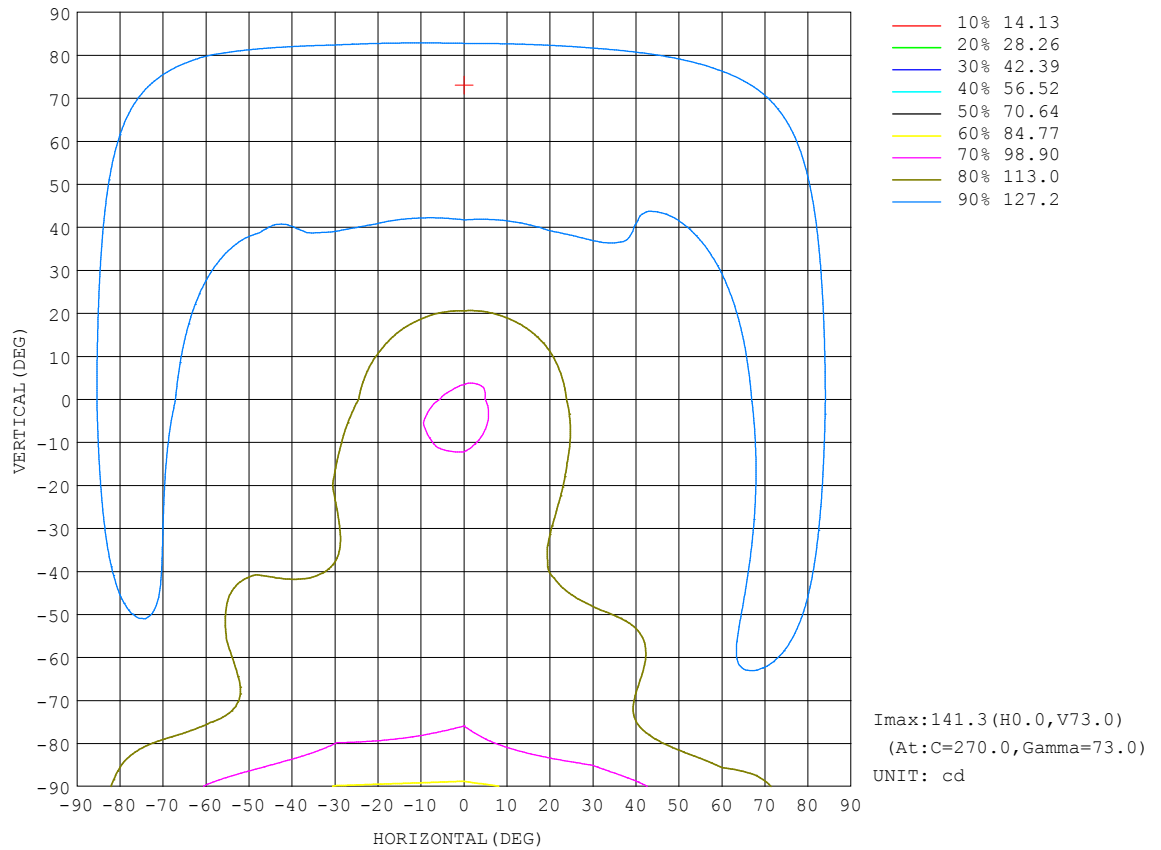
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	38	25	18	36	24	17	33	23	16	9
0.80	47	33	24	44	31	23	40	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:0.1450A P:17.20W PF:0.9830 Freq:60.00Hz Lamp Flux:1271.53x1 lm		
NAME: RDFS-8-17W-95C-MVUD-BL 整灯 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:

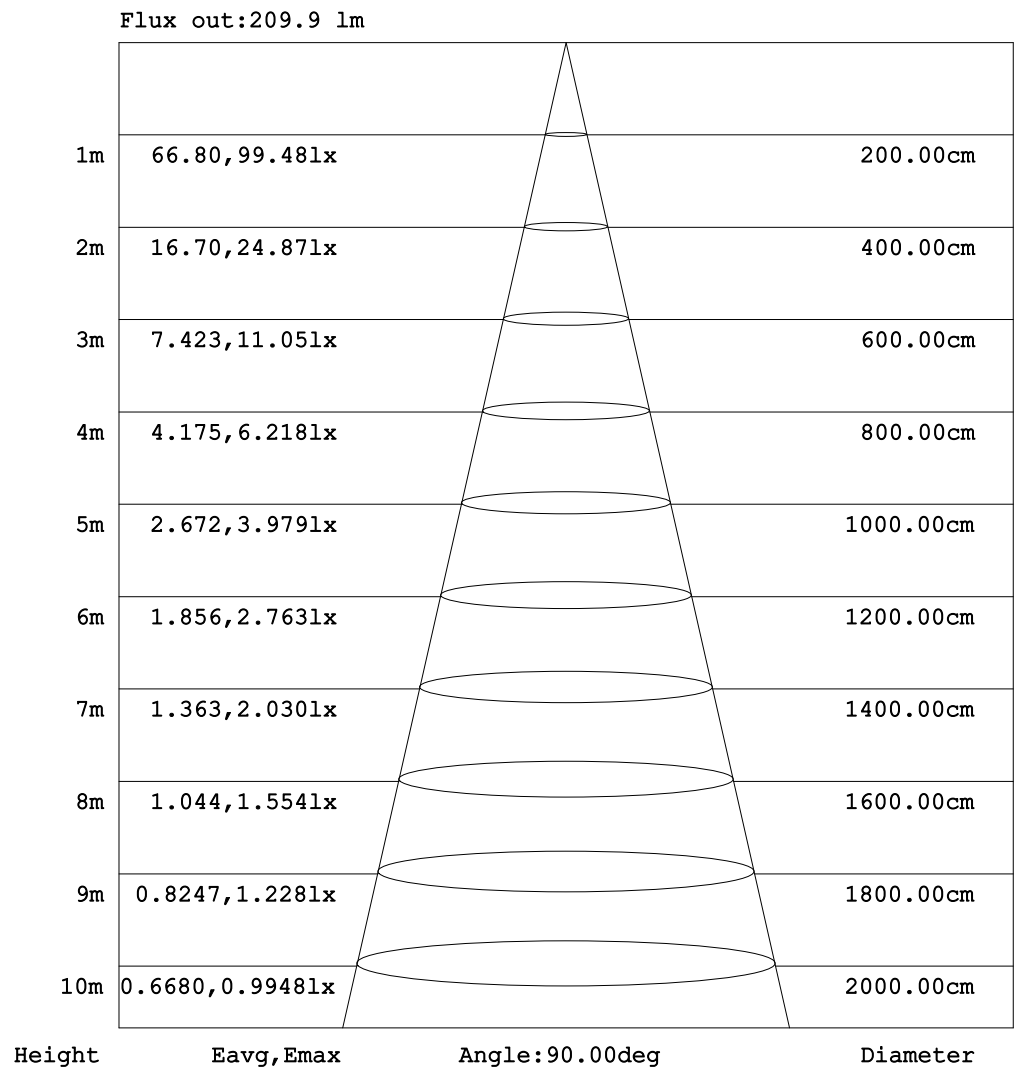


C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-09-25

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:0.1450A P:17.20W PF:0.9830 Freq:60.00Hz Lamp Flux:1271.53x1 lm		
NAME: RDFS-8-17W-95C-MVUD-BL 整灯 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:

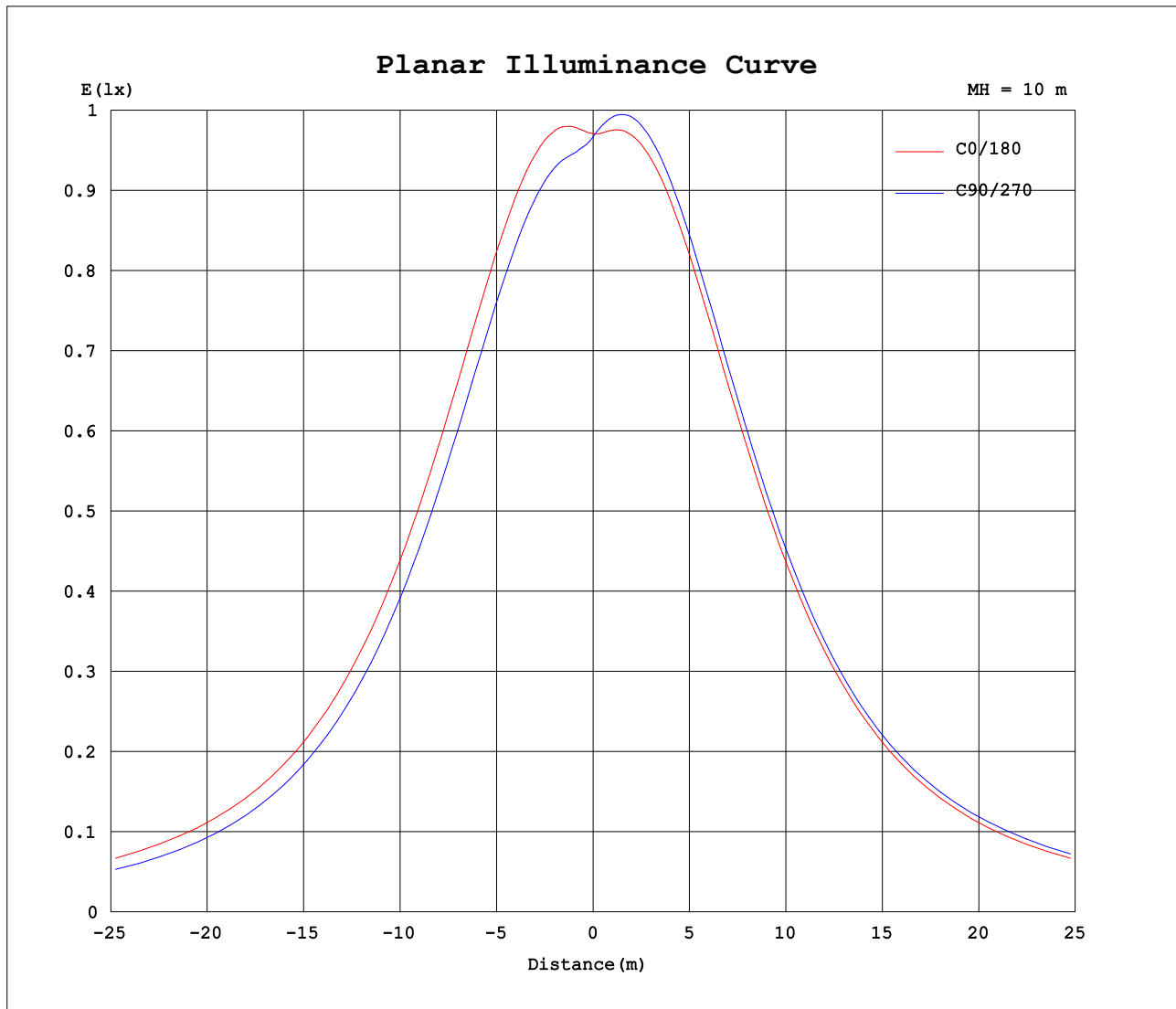


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.1450A P:17.20W PF:0.9830 Freq:60.00Hz Lamp Flux:1271.53x1 lm		
NAME: RDFS-8-17W-95C-MVUD-BL 整灯 4000K	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	97.1	97.3	97.2	96.7	96.1	95.8	97.1	97.3	97.2	96.7	96.1	95.8							
5	99.0	98.1	97.1	95.9	95.5	95.9	98.6	99.7	100	100	99.4	98.7							
10	102	101	99.4	97.8	97.5	98.4	102	103	104	104	103	102							
15	106	104	102	100	100	101	106	107	108	108	108	107							
20	110	108	105	103	103	105	110	111	112	113	112	111							
25	114	111	108	106	105	108	113	115	116	117	116	115							
30	117	114	110	108	108	110	117	119	120	121	120	119							
35	120	117	112	109	110	113	120	122	123	124	123	122							
40	123	118	113	111	111	114	122	124	126	127	126	124							
45	124	119	113	111	111	115	124	126	127	128	128	126							
50	125	119	112	110	111	115	124	127	128	129	128	127							
55	125	119	111	109	109	115	124	127	128	129	129	127							
60	124	118	109	106	107	113	124	128	129	130	130	127							
65	126	118	107	103	105	112	126	130	133	135	133	130							
70	131	120	106	101	103	112	131	136	138	140	139	136							
75	136	124	107	99.2	102	115	136	140	140	141	140	138							
80	133	124	105	96.8	100.0	115	136	137	134	133	133	133							
85	125	118	100	91.4	94.1	109	128	127	124	123	123	124							
90	119	109	91.2	82.4	84.5	98.5	118	122	124	125	124	122							
95	123	109	87.6	76.1	78.0	94.1	120	126	127	127	127	126							
100	124	112	90.1	79.2	80.1	95.1	121	126	125	124	124	125							
105	120	104	88.7	67.9	75.2	84.0	110	120	115	119	120	120							
110	114	75.0	77.6	53.9	58.7	67.5	103	114	104	116	112	116							
115	109	66.7	67.6	43.8	45.5	56.0	97.8	103	99.7	107	105	114							
120	104	64.7	61.6	37.5	38.9	50.3	92.9	98.2	99.0	97.0	99.8	109							
125	100	62.5	55.6	36.5	34.0	46.9	89.4	95.4	98.4	96.4	96.5	103							
130	95.9	62.3	47.2	33.3	28.2	45.1	87.7	97.2	97.2	95.7	95.5	98.4							
135	90.7	61.6	41.0	24.8	28.6	47.5	88.4	97.4	95.5	94.5	94.2	93.3							
140	84.7	60.7	31.2	20.5	29.0	50.8	85.5	95.4	93.2	92.4	92.8	88.1							
145	80.7	58.1	28.3	16.8	29.8	52.0	71.5	92.2	90.4	89.4	90.0	86.1							
150	75.4	52.5	26.2	11.9	30.4	52.4	63.8	84.3	87.0	86.1	86.5	84.1							
155	66.2	47.2	23.7	9.63	30.8	51.9	58.2	71.6	83.5	82.6	83.0	82.2							
160	60.5	42.3	19.4	8.65	31.3	50.9	52.4	63.3	78.5	79.2	79.1	79.1							
165	55.3	37.1	12.4	8.30	31.5	49.2	44.9	55.8	69.5	75.4	75.0	75.4							
170	49.4	30.6	6.80	18.9	44.6	50.9	36.5	48.1	61.4	70.3	70.6	71.3							
175	42.0	26.5	28.1	41.9	55.0	59.5	30.7	40.4	54.2	63.2	66.2	67.0							
180	37.7	34.7	46.6	56.0	61.6	64.0	37.6	34.7	46.7	56.1	61.6	64.0							

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: