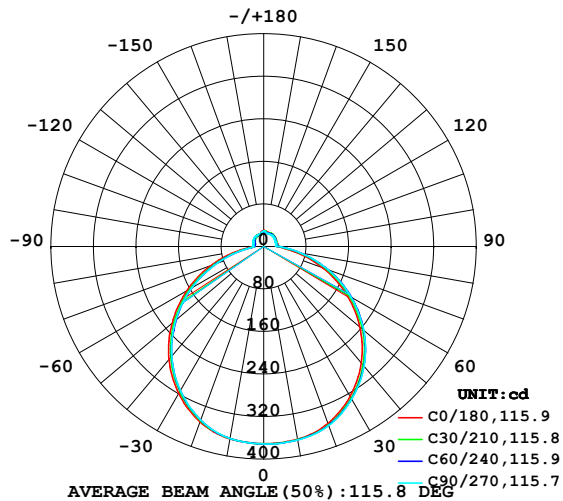


LUMINAIRE PHOTOMETRIC TEST REPORT

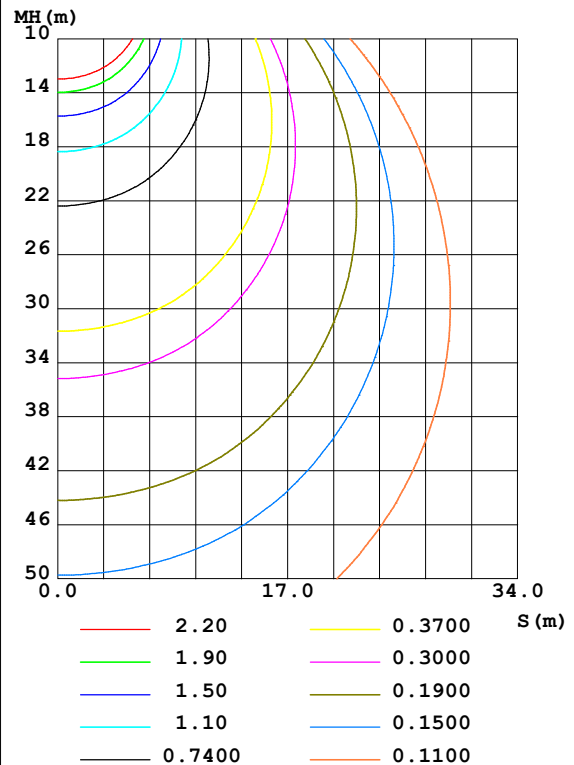
Test:U:120.5V I:0.2470A P:26.00W PF:0.8720 Freq:60.00Hz Lamp Flux:1279.41x1 lm		
NAME: DRF16-26DOB-95C-120D-BL 整灯 5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:16寸	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 49.21 lm/W			
MODEL		Imax(cd)	371.9	S/MH(C0/180)	1.28
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.25
RATED VOLTAGE(V)		TOTAL FLUX(lm)	1279.4	η UP,DN(C0-180)	6.1,46.3
NOMINAL FLUX(lm)	1279.41	CIE CLASS	SEMI-D.	η UP,DN(C180-360)	5.6,42.1
LAMPS INSIDE	1	η up(%)	11.7	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)		η down(%)	88.3	CIBSE SHR MAX	1.35

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:2024-03-27

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	368.1	368.9	369.4	368.4	367.2	366.6	366.9	367.5	0- 10	35.28	35.28	2.76, 2.76
20	354.3	357.3	358.4	355.1	350.9	347.9	347.2	350.8	10- 20	102.3	137.6	10.8, 10.8
30	325.3	330.2	331.5	326.1	319.5	314.5	313.5	319.7	20- 30	156.3	293.9	23, 23
40	285.6	292.0	293.9	286.5	277.3	270.7	269.2	277.5	30- 40	189.8	483.7	37.8, 37.8
50	236.3	244.4	246.2	236.9	224.5	217.1	216.0	225.5	40- 50	198.5	682.2	53.3, 53.3
60	179.8	188.2	189.3	180.0	167.0	158.3	156.6	167.7	50- 60	181.1	863.3	67.5, 67.5
70	117.9	128.0	129.4	119.5	106.2	96.41	94.06	105.7	60- 70	141.5	1005	78.5, 78.5
80	59.63	68.16	70.02	60.83	49.32	41.04	39.50	49.03	70- 80	87.18	1092	85.4, 85.4
90	24.94	27.51	26.98	22.76	19.59	18.50	19.93	22.52	80- 90	38.26	1130	88.3, 88.3
100	25.76	25.14	23.69	21.61	20.64	18.16	21.18	22.25	90-100	24.19	1154	90.2, 90.2
110	24.97	24.37	23.38	21.44	20.57	19.03	21.50	22.82	100-110	23.31	1178	92.1, 92.1
120	26.01	25.36	24.45	22.68	21.68	20.85	22.85	24.35	110-120	22.61	1200	93.8, 93.8
130	26.79	26.63	25.42	24.14	23.06	22.63	24.18	25.78	120-130	21.66	1222	95.5, 95.5
140	27.62	27.70	26.06	24.86	24.29	23.86	24.74	26.38	130-140	19.60	1242	97, 97
150	28.04	27.90	25.89	24.68	24.75	23.97	24.73	25.94	140-150	16.17	1258	98.3, 98.3
160	28.02	27.24	25.94	23.97	25.11	23.33	24.77	24.89	150-160	11.81	1270	99.2, 99.2
170	28.83	27.85	27.15	25.99	27.84	26.41	26.75	26.40	160-170	7.151	1277	99.8, 99.8
180	30.26	28.49	29.15	27.80	30.26	28.50	29.13	27.80	170-180	2.655	1279	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 583.5 lm

%lum = 45.6%

%lamp = 45.6%

Conical surface Flux(120deg): 863.31 lm

%lum = 67.5%

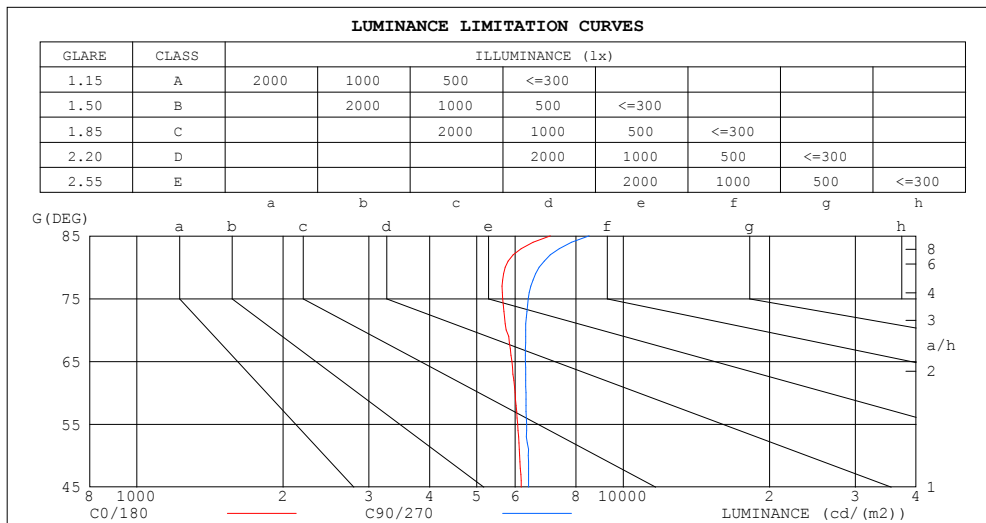
%lamp = 67.5%

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-03-27

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:0.2470A P:26.00W PF:0.8720 Freq:60.00Hz Lamp Flux:1279.41x1 lm		
NAME: DRF16-26DOB-95C-120D-BL 整灯 5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:16寸	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	7085	8512
80	5724	6721
75	5656	6381
70	5747	6304
65	5905	6299
60	5994	6309
55	6069	6329
50	6128	6384
45	6176	6389

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-03-27

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:0.2470A P:26.00W PF:0.8720 Freq:60.00Hz Lamp Flux:1279.41x1 lm					
NAME: DRF16-26DOB-95C-120D-BL 整灯 5000K			TYPE:		WEIGHT:
SPEC.:			DIM.:		SERIAL No.:
MFR.: 革星			SUR.:16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	.321	.183	.058	.311	.177	.056	.291	.167	.053	.273	.157	.050	.256	.148	.048		
2.0	.296	.162	.050	.286	.158	.049	.268	.149	.046	.252	.141	.044	.237	.134	.042		
3.0	.271	.144	.043	.263	.141	.042	.247	.134	.041	.232	.127	.039	.218	.121	.037		
4.0	.249	.129	.038	.241	.126	.037	.227	.120	.036	.213	.115	.035	.201	.109	.033		
5.0	.229	.117	.034	.222	.114	.033	.209	.109	.032	.197	.104	.031	.186	.099	.030		
6.0	.212	.106	.030	.206	.104	.030	.194	.099	.029	.183	.095	.028	.173	.091	.027		
7.0	.197	.098	.028	.192	.095	.027	.181	.091	.026	.171	.087	.025	.161	.084	.025		
8.0	.184	.090	.025	.179	.088	.025	.169	.084	.024	.160	.081	.023	.151	.077	.023		
9.0	.172	.083	.023	.168	.082	.023	.158	.078	.022	.150	.075	.022	.142	.072	.021		
10.0	.162	.078	.022	.158	.076	.021	.149	.073	.021	.141	.070	.020	.134	.067	.019		

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	.279	.279	.279	.239	.239	.239	.163	.163	.163	.094	.094	.094	.030	.030	.030	
1.0	.271	.246	.223	.232	.211	.192	.158	.145	.133	.091	.084	.077	.029	.027	.025	
2.0	.263	.222	.188	.225	.191	.162	.154	.132	.113	.089	.077	.066	.029	.025	.022	
3.0	.255	.205	.165	.219	.177	.143	.150	.123	.100	.087	.072	.059	.028	.023	.019	
4.0	.248	.192	.149	.213	.166	.130	.146	.116	.091	.085	.068	.054	.027	.022	.018	
5.0	.241	.182	.139	.207	.157	.121	.142	.110	.085	.082	.065	.051	.027	.021	.017	
6.0	.233	.174	.131	.201	.150	.114	.138	.105	.081	.080	.062	.048	.026	.020	.016	
7.0	.227	.167	.125	.195	.145	.109	.135	.102	.077	.078	.060	.046	.025	.020	.015	
8.0	.220	.161	.121	.190	.140	.105	.131	.098	.075	.076	.058	.045	.025	.019	.015	
9.0	.214	.157	.118	.185	.136	.103	.128	.096	.073	.075	.056	.043	.024	.019	.014	
10.0	.209	.152	.115	.180	.132	.100	.125	.093	.071	.073	.055	.043	.024	.018	.014	

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-03-27

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:0.2470A P:26.00W PF:0.8720 Freq:60.00Hz Lamp Flux:1279.4lx1 lm											
NAME: DRF16-26DOB-95C-120D-BL 整灯 5000K						TYPE:		WEIGHT:			
SPEC.:						DIM.:		SERIAL No.:			
MFR.: 革星						SUR.:16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	17.8	19.2	18.3	19.6	20.1	18.1	19.4	18.5	19.8	20.3	
	3H	19.5	20.8	20.0	21.2	21.7	19.8	21.1	20.3	21.5	22.0
	4H	20.2	21.4	20.7	21.9	22.3	20.6	21.8	21.1	22.2	22.7
	6H	20.8	21.9	21.3	22.4	22.9	21.3	22.4	21.8	22.9	23.4
	8H	21.0	22.1	21.5	22.6	23.1	21.6	22.7	22.1	23.1	23.7
	12H	21.3	22.3	21.8	22.8	23.4	21.9	22.9	22.4	23.4	23.9
4H	2H	18.5	19.7	19.0	20.2	20.7	18.7	19.9	19.2	20.3	20.8
	3H	20.4	21.4	20.9	21.9	22.4	20.6	21.7	21.1	22.2	22.7
	4H	21.2	22.2	21.8	22.7	23.3	21.5	22.5	22.1	23.0	23.6
	6H	22.0	22.8	22.5	23.3	24.0	22.4	23.2	23.0	23.8	24.4
	8H	22.3	23.1	22.9	23.6	24.3	22.8	23.5	23.3	24.1	24.7
	12H	22.6	23.3	23.2	23.9	24.5	23.1	23.9	23.7	24.4	25.1
8H	4H	21.6	22.4	22.2	22.9	23.6	21.9	22.6	22.4	23.2	23.8
	6H	22.5	23.2	23.1	23.8	24.4	22.9	23.6	23.5	24.2	24.8
	8H	23.0	23.6	23.6	24.2	24.9	23.4	24.0	24.1	24.6	25.3
	12H	23.4	23.9	24.1	24.6	25.3	23.9	24.4	24.6	25.1	25.8
12H	4H	21.6	22.3	22.2	22.9	23.6	21.9	22.6	22.5	23.2	23.8
	6H	22.7	23.2	23.3	23.8	24.5	23.0	23.6	23.6	24.2	24.9
	8H	23.2	23.7	23.8	24.3	25.0	23.6	24.1	24.2	24.7	25.4
Variations with the observer position at spacings:											
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.2					
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3					
2.0H	+ 0.1 / - 0.4					+ 0.1 / - 0.3					

CIE Pub.117, 1279 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 0.9$)

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2024-03-27

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:120.5V I:0.2470A P:26.00W PF:0.8720 Freq:60.00Hz Lamp Flux:1279.41x1 lm		
NAME: DRF16-26DOB-95C-120D-BL 整灯 5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:16寸	Shielding Angle:

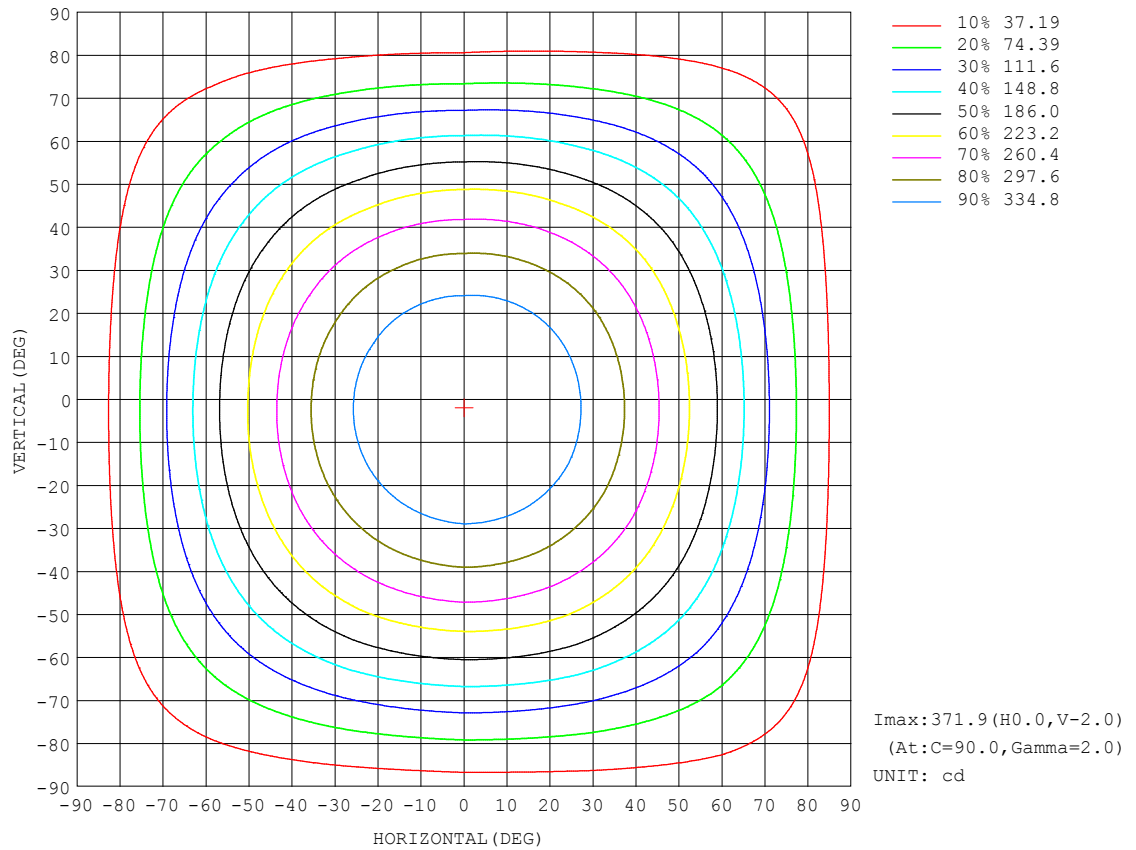
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	53	42	35	52	41	34	50	40	34	27
0.80	63	51	44	62	50	43	59	49	42	35
1.00	71	60	52	69	59	51	66	59	50	42
1.25	78	67	60	76	66	59	72	64	57	49
1.50	83	73	65	81	71	64	77	68	62	53
2.00	90	81	74	88	79	73	83	76	70	60
2.50	94	86	79	91	84	78	86	80	75	64
3.00	98	90	84	95	88	82	89	83	79	67
4.00	102	96	91	99	93	88	93	88	84	72
5.00	105	99	95	101	96	92	95	91	87	75
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:2024-03-27

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:120.5V I:0.2470A P:26.00W PF:0.8720 Freq:60.00Hz Lamp Flux:1279.41x1 lm		
NAME: DRF16-26DOB-95C-120D-BL 整灯 5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:16寸	Shielding Angle:

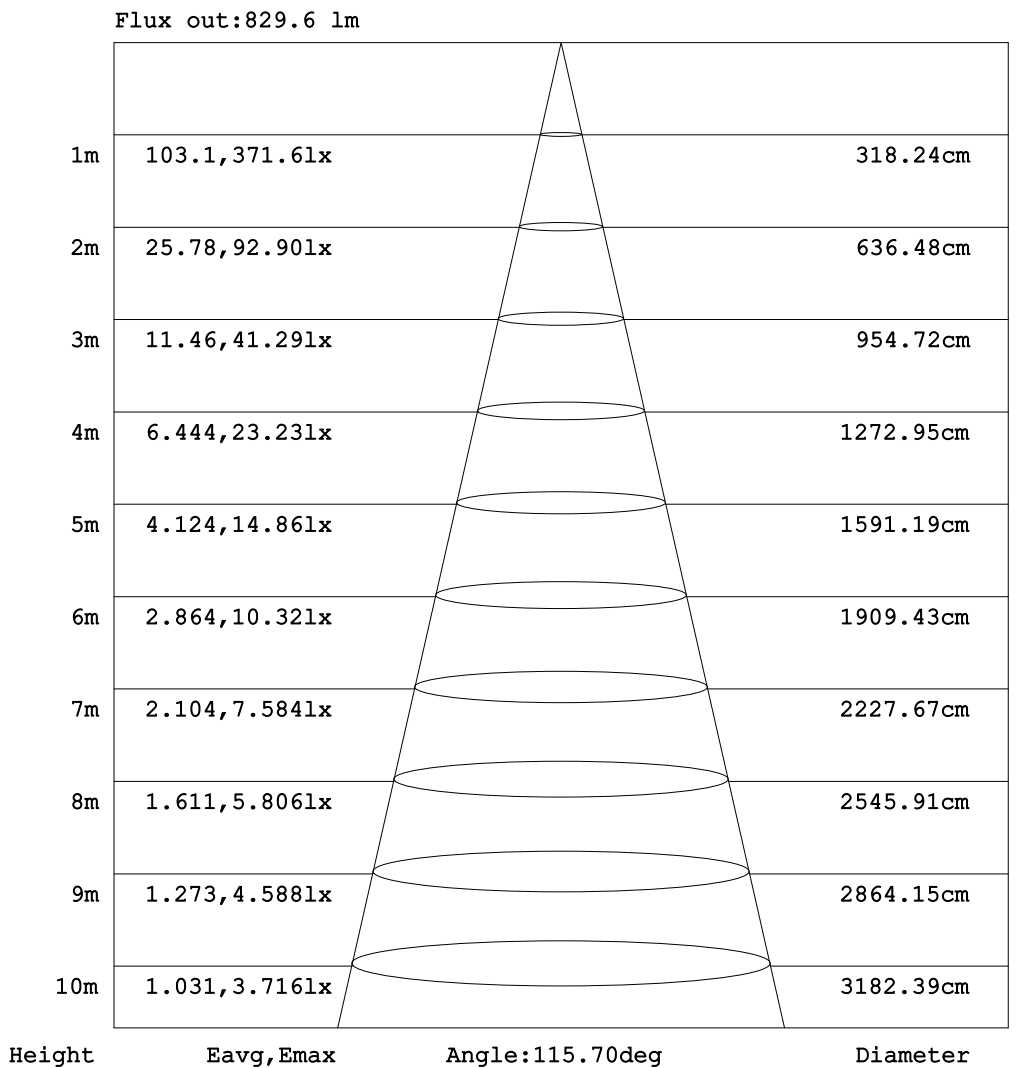


C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2024-03-27

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:0.2470A P:26.00W PF:0.8720 Freq:60.00Hz Lamp Flux:1279.41x1 lm		
NAME: DRF16-26DOB-95C-120D-BL 整灯 5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:16寸	Shielding Angle:

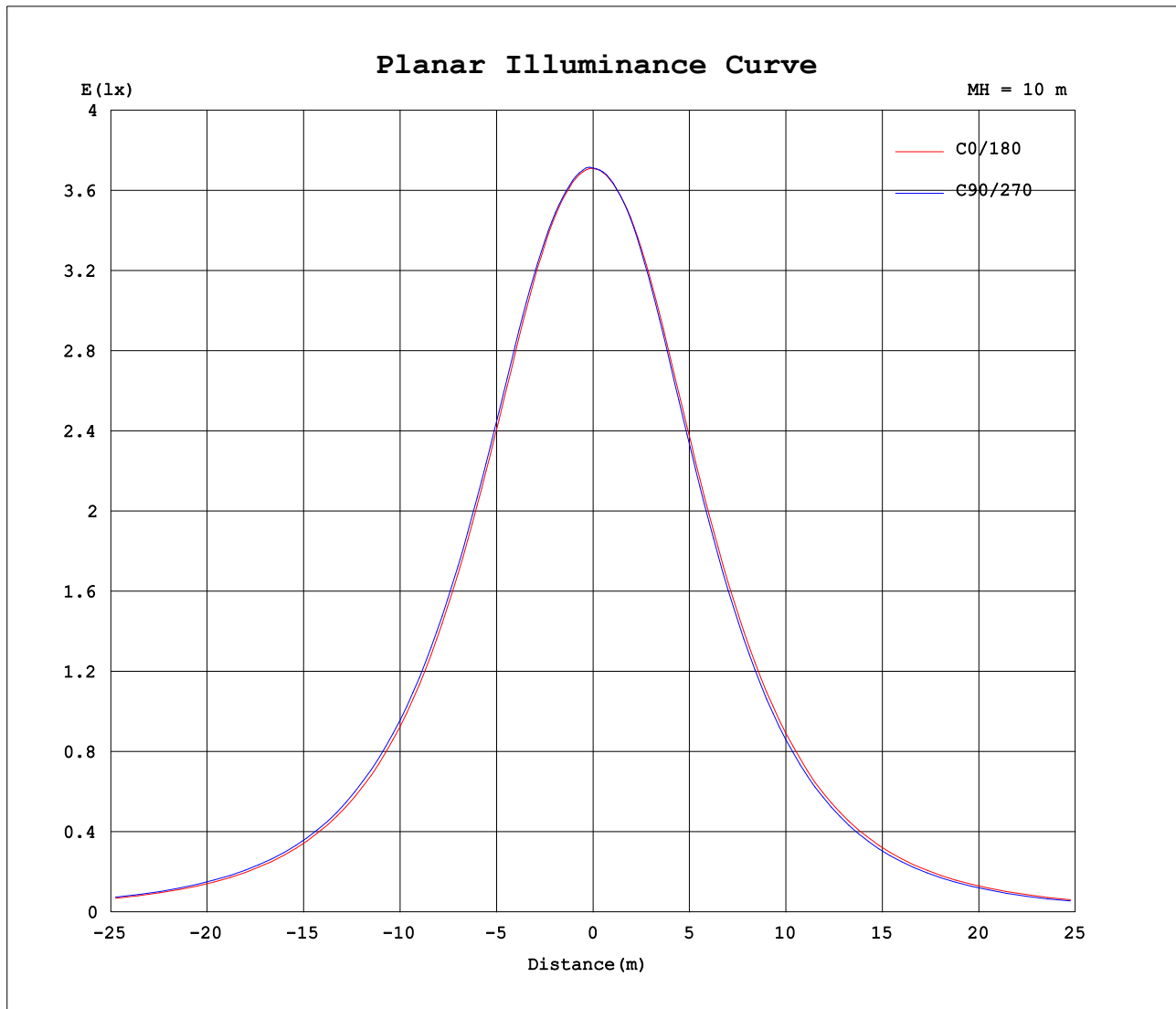


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-03-27

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: 2024-03-27

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:0.2470A P:26.00W PF:0.8720 Freq:60.00Hz Lamp Flux:1279.41x1 lm		
NAME: DRF16-26DOB-95C-120D-BL 整灯 5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:16寸	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330							
0	371	371	371	371	371	371	371	371	371	371	371	371							
5	370	371	371	371	371	371	370	370	370	370	370	370							
10	368	369	369	369	369	368	367	367	366	367	367	367							
15	363	365	365	366	365	363	361	360	359	359	361	362							
20	354	357	358	358	356	354	351	349	347	347	349	352							
25	341	345	346	347	344	341	337	333	332	332	335	338							
30	325	329	331	332	328	324	319	315	314	313	317	322							
35	307	311	313	314	310	305	300	295	293	293	297	303							
40	286	291	293	294	289	284	277	272	270	269	274	281							
45	262	268	271	271	266	260	253	246	244	243	250	256							
50	236	243	246	246	241	233	225	219	215	216	221	230							
55	209	214	219	218	213	204	196	190	186	187	192	202							
60	180	186	190	189	184	175	167	160	156	157	163	172							
65	150	156	161	160	155	145	137	129	125	126	132	142							
70	118	126	130	129	124	115	106	98.1	94.8	94.1	101	110							
75	87.8	95.4	98.8	99.1	92.9	85.0	76.5	68.6	65.7	64.9	71.8	80.2							
80	59.6	66.6	69.8	70.0	64.4	57.2	49.3	42.3	39.8	39.5	45.3	52.7							
85	37.0	42.2	44.5	44.5	40.1	34.4	28.3	23.4	22.1	22.7	26.9	32.0							
90	24.9	27.2	27.8	27.0	24.2	21.4	19.6	18.4	18.6	19.9	21.7	23.3							
95	25.2	25.5	24.5	23.0	22.1	21.4	20.1	18.8	18.9	20.6	22.2	23.6							
100	25.8	25.5	24.8	23.7	21.9	21.3	20.6	18.0	18.3	21.2	21.7	22.8							
105	25.6	24.6	24.0	23.9	21.4	20.8	20.7	18.1	18.6	21.3	21.7	22.8							
110	25.0	24.8	24.0	23.4	21.9	21.0	20.6	18.8	19.3	21.5	22.3	23.3							
115	25.6	25.2	24.4	23.9	22.5	21.5	21.1	19.6	20.2	22.2	23.1	24.0							
120	26.0	25.8	24.9	24.4	23.2	22.2	21.7	20.5	21.2	22.9	23.9	24.8							
125	26.4	26.4	25.6	24.9	23.9	22.9	22.3	21.4	22.2	23.6	24.8	25.5							
130	26.8	27.0	26.3	25.4	24.6	23.7	23.1	22.2	23.0	24.2	25.5	26.1							
135	27.2	27.6	26.9	25.9	25.2	24.0	23.8	22.9	23.8	24.6	25.7	26.7							
140	27.6	28.2	27.2	26.1	25.6	24.2	24.3	23.5	24.2	24.7	25.8	27.0							
145	28.0	28.5	27.4	26.0	25.5	24.1	24.6	23.7	24.3	24.7	25.7	26.8							
150	28.0	28.5	27.3	25.9	25.3	24.0	24.8	23.8	24.2	24.7	25.4	26.5							
155	28.1	28.3	27.0	26.0	25.1	23.8	25.0	23.6	23.8	24.8	25.0	26.0							
160	28.0	27.9	26.6	25.9	24.6	23.3	25.1	23.4	23.3	24.8	24.4	25.4							
165	27.8	27.2	26.0	25.7	24.0	22.9	25.2	23.2	22.8	24.4	23.8	24.7							
170	28.8	28.4	27.3	27.1	26.5	25.5	27.8	26.2	26.7	26.8	25.9	26.9							
175	29.9	29.4	27.7	28.5	28.1	26.8	29.4	27.7	28.0	28.3	27.0	28.2							
180	30.3	28.8	28.1	29.1	27.8	27.8	30.3	28.8	28.2	29.1	27.8	27.8							

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-03-27

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: