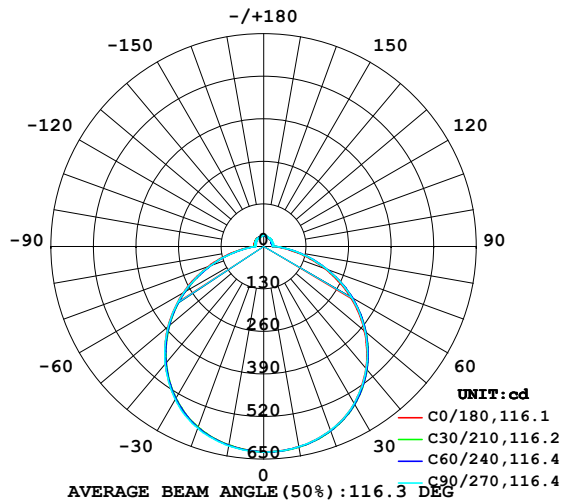


LUMINAIRE PHOTOMETRIC TEST REPORT

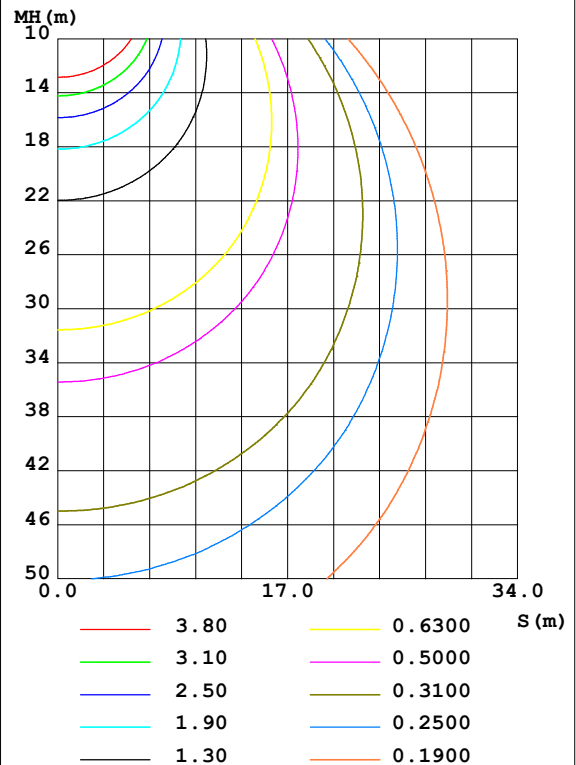
Test:U:120.5V I:0.3280A P:34.00W PF:0.8590 Freq:60.00Hz Lamp Flux:2097.26x1 lm		
NAME: DRF19-34DOB-95C-120D-BL 整灯 3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:19寸	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 61.68 lm/W
MODEL		I _{max} (cd)	629.7	S/MH (C0/180)	1.27	
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	1.28	
RATED VOLTAGE (V)		TOTAL FLUX (lm)	2097.3	η UP, DN (C0-180)	4.3, 46.9	
NOMINAL FLUX (lm)	2097.26	CIE CLASS	DIRECT	η UP, DN (C180-360)	4.5, 44.3	
LAMPS INSIDE	1	η up (%)	8.8	CIBSE SHR NOM	1.25	
TEST VOLTAGE (V)		η down (%)	91.2	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: 2024-04-10

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	621.4	622.5	621.2	620.1	616.3	616.5	618.7	621.4	0- 10	59.56	59.56	2.84,2.84
20	598.1	599.7	598.0	594.3	588.4	588.0	590.7	595.6	10- 20	172.1	231.7	11,11
30	553.6	556.9	554.1	548.2	538.4	536.5	540.4	547.7	20- 30	264.4	496.1	23.7,23.7
40	486.2	490.8	487.9	480.0	467.6	464.1	468.4	477.8	30- 40	322.0	818.1	39,39
50	401.6	408.3	404.7	395.4	381.9	376.7	381.0	391.7	40- 50	337.1	1155	55.1,55.1
60	304.3	312.5	309.6	299.2	284.4	277.9	281.4	292.7	50- 60	308.6	1464	69.8,69.8
70	199.3	207.7	205.2	196.2	180.8	173.1	175.6	186.3	60- 70	240.7	1704	81.3,81.3
80	97.99	106.4	106.1	97.98	85.15	77.45	77.80	86.85	70- 80	147.9	1852	88.3,88.3
90	29.78	33.83	34.71	31.85	29.10	27.63	26.71	27.23	80- 90	60.77	1913	91.2,91.2
100	26.90	26.87	28.12	28.23	29.84	28.01	27.86	26.87	90-100	30.23	1943	92.7,92.7
110	27.41	26.15	29.19	27.69	30.62	28.12	28.42	26.87	100-110	29.28	1973	94.1,94.1
120	28.02	27.35	29.00	28.91	30.96	29.85	29.45	28.65	110-120	28.05	2001	95.4,95.4
130	29.18	28.91	29.95	30.37	32.10	31.40	30.64	30.31	120-130	26.57	2027	96.7,96.7
140	29.89	30.03	30.55	31.17	32.52	32.07	30.90	30.91	130-140	23.81	2051	97.8,97.8
150	30.10	30.42	30.84	31.29	32.49	32.09	31.07	30.70	140-150	19.53	2071	98.7,98.7
160	30.49	30.24	31.19	30.84	32.54	31.47	31.20	30.05	150-160	14.36	2085	99.4,99.4
170	33.97	33.22	34.49	33.43	34.38	34.23	34.39	33.37	160-170	9.094	2094	99.8,99.8
180	35.61	34.81	35.96	34.52	35.63	34.80	35.92	34.50	170-180	3.274	2097	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 987.51 lm

%lum = 47.1%

%lamp = 47.1%

Conical surface Flux(120deg): 1463.7 lm

%lum = 69.8%

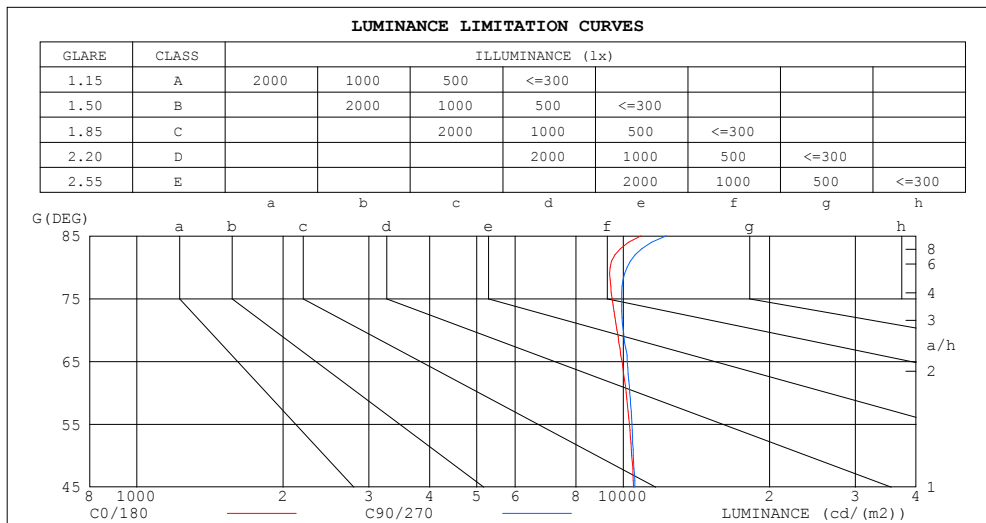
%lamp = 69.8%

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-04-10

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:0.3280A P:34.00W PF:0.8590 Freq:60.00Hz Lamp Flux:2097.26x1 lm		
NAME: DRF19-34DOB-95C-120D-BL 整灯 3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:19寸	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	10870	12252
80	9405	10185
75	9488	9927
70	9714	10001
65	9952	10191
60	10145	10320
55	10303	10427
50	10413	10494
45	10507	10560

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-04-10

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:0.3280A P:34.00W PF:0.8590 Freq:60.00Hz Lamp Flux:2097.26x1 lm					
NAME: DRF19-34DOB-95C-120D-BL 整灯 3500K			TYPE:		WEIGHT:
SPEC.:			DIM.:		SERIAL No.:
MFR.: 革星			SUR.:19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	.322	.183	.058	.312	.178	.057	.294	.169	.054	.277	.160	.051	.262	.152	.049	
2.0	.297	.163	.050	.288	.159	.049	.272	.151	.047	.257	.144	.045	.243	.137	.043	
3.0	.273	.145	.043	.265	.142	.043	.250	.136	.041	.237	.130	.040	.224	.124	.038	
4.0	.250	.130	.038	.243	.127	.038	.230	.122	.036	.218	.117	.035	.206	.112	.034	
5.0	.231	.118	.034	.224	.115	.034	.213	.111	.033	.201	.106	.032	.191	.102	.031	
6.0	.214	.107	.031	.208	.105	.030	.197	.101	.029	.187	.097	.029	.178	.093	.028	
7.0	.198	.098	.028	.193	.096	.027	.183	.093	.027	.174	.089	.026	.166	.086	.025	
8.0	.185	.090	.025	.180	.089	.025	.171	.086	.024	.163	.083	.024	.155	.080	.023	
9.0	.173	.084	.023	.169	.082	.023	.161	.080	.023	.153	.077	.022	.146	.074	.021	
10.0	.163	.078	.022	.159	.077	.021	.151	.074	.021	.144	.072	.020	.138	.069	.020	

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	.257	.257	.257	.220	.220	.220	.150	.150	.150	.086	.086	.086	.028	.028	.028		
1.0	.249	.224	.201	.213	.192	.173	.146	.132	.120	.084	.076	.070	.027	.025	.022		
2.0	.241	.200	.165	.206	.172	.143	.141	.119	.100	.082	.069	.058	.026	.022	.019		
3.0	.233	.183	.142	.200	.158	.123	.137	.109	.086	.079	.064	.051	.025	.021	.017		
4.0	.226	.170	.127	.194	.147	.110	.133	.102	.078	.077	.060	.046	.025	.019	.015		
5.0	.218	.159	.116	.188	.138	.101	.129	.096	.071	.075	.057	.042	.024	.018	.014		
6.0	.211	.151	.108	.182	.131	.094	.125	.092	.067	.073	.054	.040	.023	.018	.013		
7.0	.204	.144	.102	.176	.125	.089	.122	.088	.063	.071	.052	.038	.023	.017	.012		
8.0	.198	.139	.098	.170	.120	.086	.118	.085	.061	.069	.050	.036	.022	.016	.012		
9.0	.192	.134	.095	.165	.116	.083	.115	.082	.059	.067	.048	.035	.022	.016	.012		
10.0	.186	.130	.092	.161	.113	.080	.111	.079	.057	.065	.047	.034	.021	.015	.011		

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-04-10

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:0.3280A P:34.00W PF:0.8590 Freq:60.00Hz Lamp Flux:2097.26x1 lm											
NAME: DRF19-34DOB-95C-120D-BL 整灯 3500K						TYPE:		WEIGHT:			
SPEC.:						DIM.:		SERIAL No.:			
MFR.: 革星						SUR.:19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		18.1	19.5	18.5	19.9	20.2	18.1	19.6	18.5	19.9	20.3
	3H	19.7	21.0	20.1	21.4	21.8	19.8	21.1	20.2	21.5	21.9
	4H	20.4	21.7	20.9	22.1	22.5	20.5	21.8	21.0	22.2	22.6
	6H	21.0	22.2	21.5	22.6	23.0	21.2	22.3	21.6	22.8	23.2
	8H	21.2	22.3	21.7	22.8	23.3	21.4	22.5	21.9	23.0	23.5
	12H	21.4	22.5	21.9	23.0	23.4	21.7	22.7	22.1	23.2	23.7
4H	2H	18.7	20.0	19.2	20.4	20.8	18.8	20.0	19.2	20.4	20.9
	3H	20.6	21.6	21.0	22.1	22.6	20.6	21.7	21.1	22.2	22.7
	4H	21.4	22.4	21.9	22.9	23.4	21.5	22.5	22.0	23.0	23.5
	6H	22.1	23.0	22.7	23.5	24.1	22.3	23.2	22.8	23.7	24.2
	8H	22.4	23.2	23.0	23.8	24.3	22.6	23.4	23.2	23.9	24.5
	12H	22.7	23.4	23.3	24.0	24.6	22.9	23.7	23.5	24.2	24.8
8H	4H	21.7	22.6	22.3	23.1	23.6	21.8	22.6	22.4	23.2	23.7
	6H	22.7	23.3	23.2	23.9	24.5	22.8	23.5	23.4	24.0	24.6
	8H	23.1	23.7	23.7	24.2	24.9	23.3	23.9	23.8	24.4	25.1
	12H	23.5	24.0	24.1	24.6	25.3	23.7	24.2	24.3	24.8	25.5
12H	4H	21.8	22.5	22.3	23.1	23.6	21.9	22.6	22.4	23.1	23.7
	6H	22.8	23.4	23.3	23.9	24.6	22.9	23.5	23.5	24.1	24.7
	8H	23.2	23.8	23.9	24.4	25.0	23.4	23.9	24.0	24.5	25.2
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, 2097 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 2.6$)

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2024-04-10

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:0.3280A P:34.00W PF:0.8590 Freq:60.00Hz Lamp Flux:2097.26x1 lm		
NAME: DRF19-34DOB-95C-120D-BL 整灯 3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:19寸	Shielding Angle:

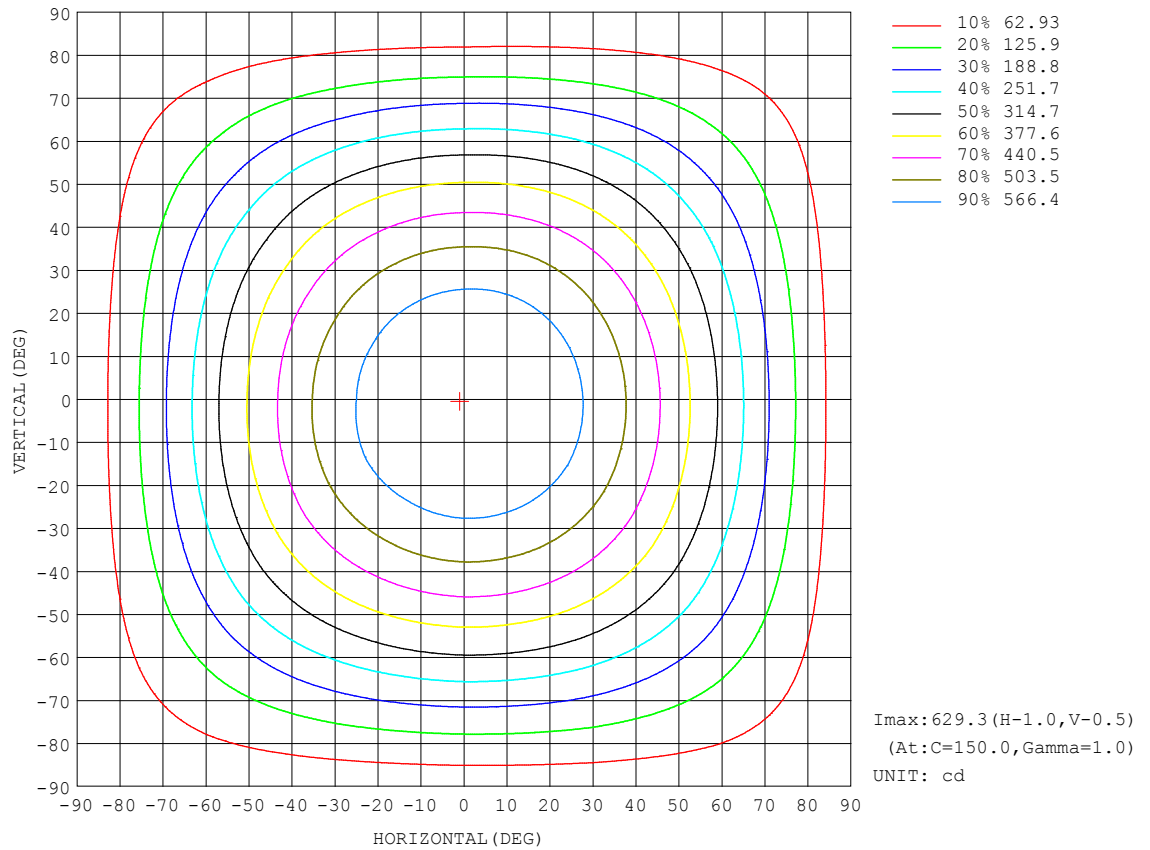
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	54	42	35	53	42	35	51	41	35	28
0.80	64	52	44	62	51	44	60	50	43	36
1.00	72	61	53	70	60	53	67	60	52	44
1.25	79	68	61	77	67	60	74	65	59	50
1.50	84	74	66	82	72	66	78	70	64	55
2.00	91	82	75	89	80	74	84	77	72	62
2.50	95	87	80	93	85	79	87	81	76	66
3.00	99	91	85	96	89	84	90	85	80	70
4.00	103	97	92	100	94	90	94	90	86	74
5.00	106	100	96	102	97	93	96	92	89	77
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:2024-04-10

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:0.3280A P:34.00W PF:0.8590 Freq:60.00Hz Lamp Flux:2097.26x1 lm		
NAME: DRF19-34DOB-95C-120D-BL 整灯 3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:19寸	Shielding Angle:

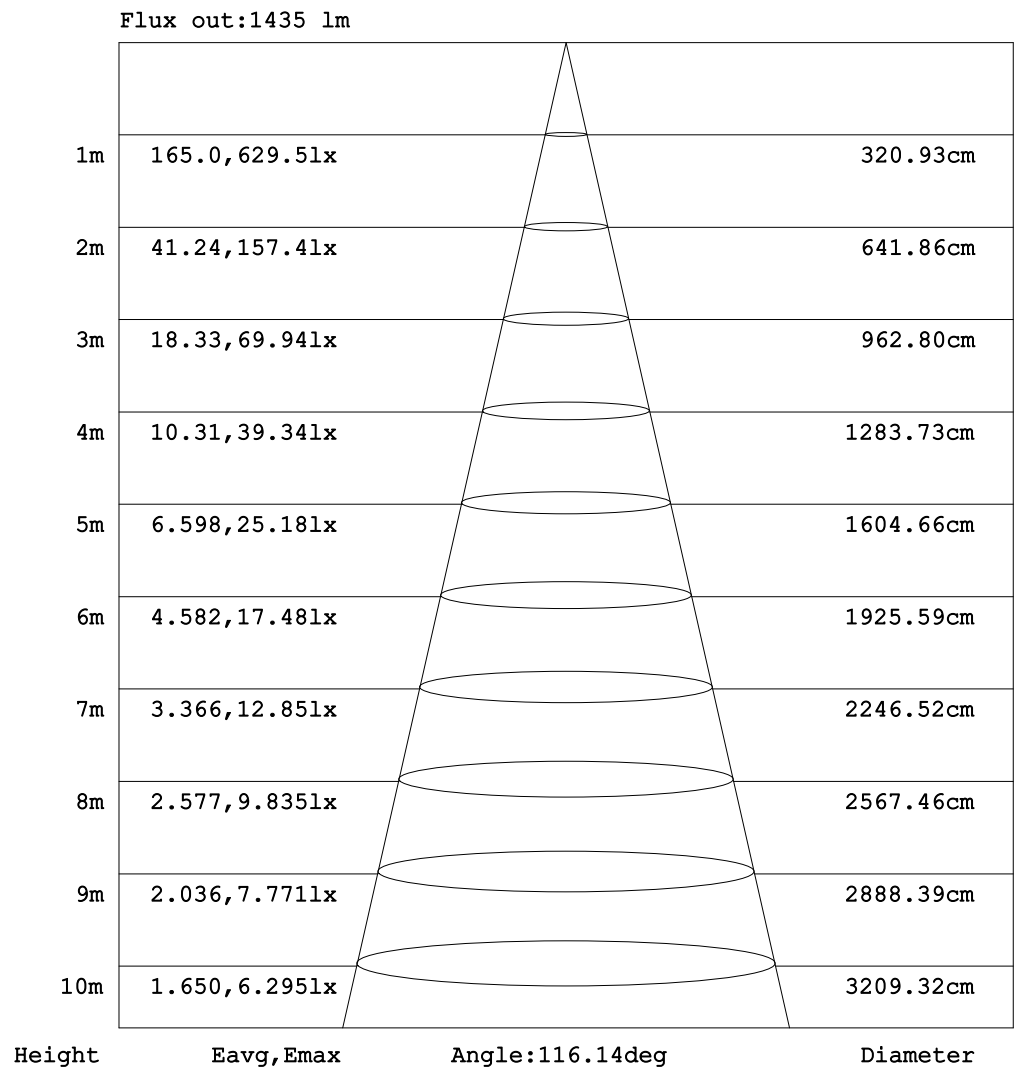


C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2024-04-10

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:0.3280A P:34.00W PF:0.8590 Freq:60.00Hz Lamp Flux:2097.26x1 lm		
NAME: DRF19-34DOB-95C-120D-BL 整灯 3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:19寸	Shielding Angle:

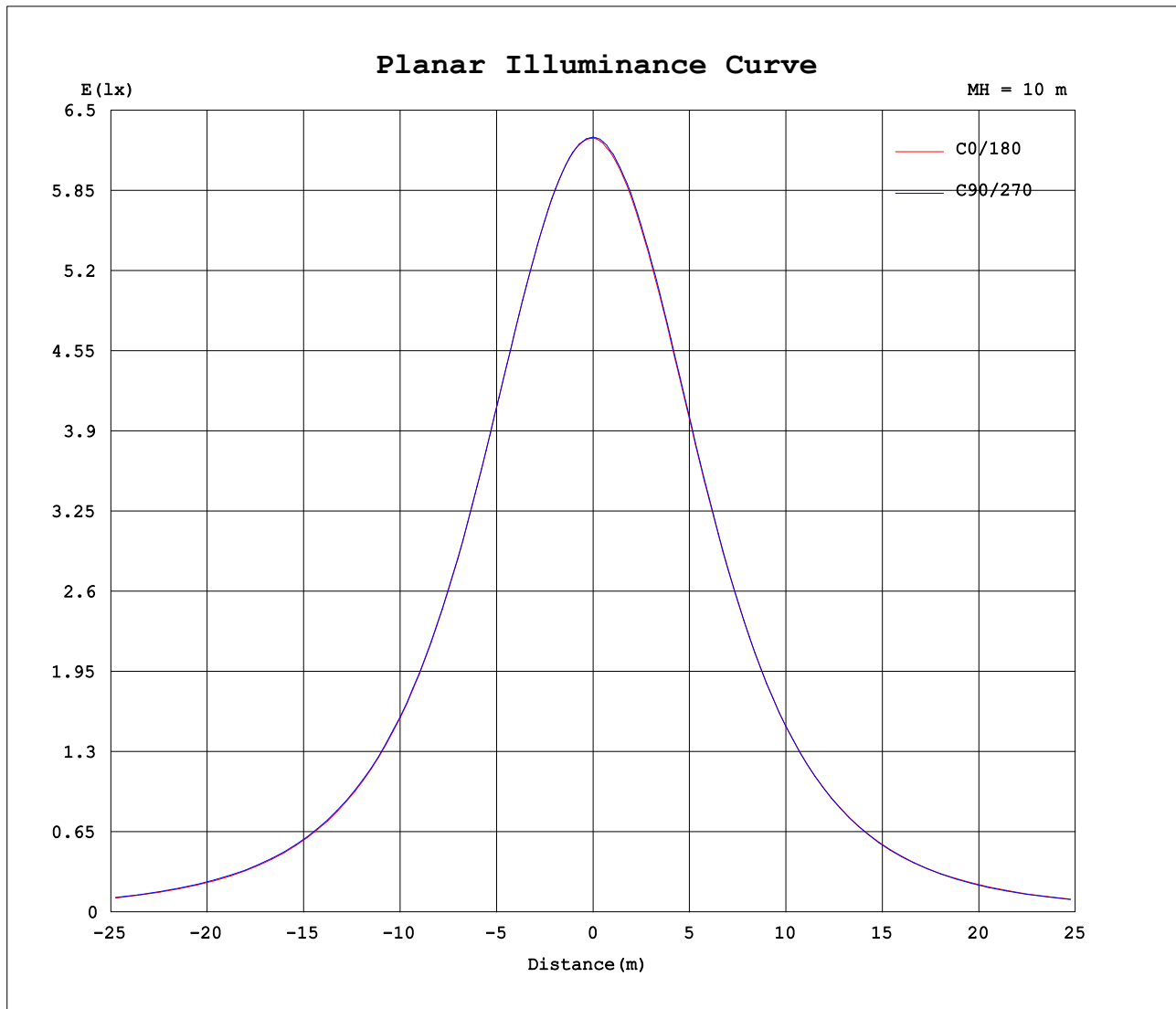


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2024-04-10

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: 2024-04-10

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:0.3280A P:34.00W PF:0.8590 Freq:60.00Hz Lamp Flux:2097.26x1 lm		
NAME: DRF19-34DOB-95C-120D-BL 整灯 3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:19寸	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330							
0	627	628	627	628	628	629	627	628	627	628	628	629							
5	627	627	627	627	627	627	627	624	624	624	625	627	628						
10	621	623	622	621	620	620	616	616	617	619	621	622							
15	612	614	613	612	610	609	605	604	605	607	610	612							
20	598	600	599	598	595	594	588	587	589	591	595	597							
25	579	582	581	579	576	574	566	564	566	569	574	577							
30	554	557	557	554	550	547	538	536	537	540	546	550							
35	522	527	526	523	518	514	505	502	503	507	513	517							
40	486	491	490	488	482	478	468	463	465	468	475	480							
45	446	451	451	448	441	437	426	422	423	427	434	439							
50	402	409	408	405	398	393	382	376	377	381	389	394							
55	355	362	362	359	351	346	334	328	329	332	341	346							
60	304	312	313	310	302	296	284	277	279	281	290	295							
65	252	261	262	258	251	246	233	225	225	229	237	243							
70	199	206	209	205	200	193	181	173	173	176	183	190							
75	147	155	157	154	149	142	131	124	123	125	132	138							
80	98.0	106	107	106	101	95.3	85.1	77.9	77.0	77.8	84.3	89.4							
85	56.8	62.9	64.6	64.1	60.0	55.9	48.8	43.2	42.1	42.1	46.5	50.2							
90	29.8	33.3	34.4	34.7	32.8	30.9	29.1	28.0	27.3	26.7	26.8	27.7							
95	26.2	26.1	26.6	27.3	27.8	27.6	29.0	28.6	27.8	27.2	27.0	27.3							
100	26.9	26.6	27.1	28.1	28.6	27.9	29.8	28.6	27.4	27.9	26.7	27.0							
105	27.5	26.2	26.5	28.8	28.5	27.2	30.5	28.1	27.2	28.3	26.3	26.5							
110	27.4	26.2	26.1	29.2	28.1	27.3	30.6	28.3	27.9	28.4	26.8	27.0							
115	27.4	26.7	26.6	29.0	28.4	28.0	30.4	29.3	28.7	28.8	27.7	27.8							
120	28.0	27.3	27.3	29.0	29.1	28.7	31.0	30.2	29.5	29.4	28.6	28.7							
125	28.5	28.1	28.2	29.5	29.8	29.5	31.6	31.0	30.3	30.1	29.5	29.6							
130	29.2	28.8	29.0	29.9	30.5	30.3	32.1	31.7	31.1	30.6	30.3	30.4							
135	29.7	29.5	29.7	30.3	31.1	30.8	32.5	32.1	31.6	30.9	30.6	30.9							
140	29.9	30.1	30.0	30.6	31.4	30.9	32.5	32.3	31.8	30.9	30.8	31.1							
145	30.0	30.4	30.1	30.7	31.5	31.0	32.5	32.3	32.0	30.9	30.7	31.1							
150	30.1	30.6	30.3	30.8	31.5	31.0	32.5	32.2	31.9	31.1	30.5	30.9							
155	30.3	30.5	30.3	31.1	31.3	30.9	32.5	31.9	31.7	31.2	30.3	30.5							
160	30.5	30.3	30.2	31.2	31.0	30.6	32.5	31.6	31.4	31.2	30.0	30.1							
165	31.9	31.6	31.6	32.5	32.7	32.1	33.5	33.2	33.4	32.9	31.7	32.0							
170	34.0	33.5	32.9	34.5	34.0	32.8	34.4	33.7	34.8	34.4	33.0	33.8							
175	35.0	34.4	34.2	35.4	34.4	33.7	35.0	34.2	34.8	35.3	33.9	33.9							
180	35.6	34.6	35.0	36.0	34.6	34.5	35.6	34.6	35.0	35.9	34.6	34.4							

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-04-10

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: