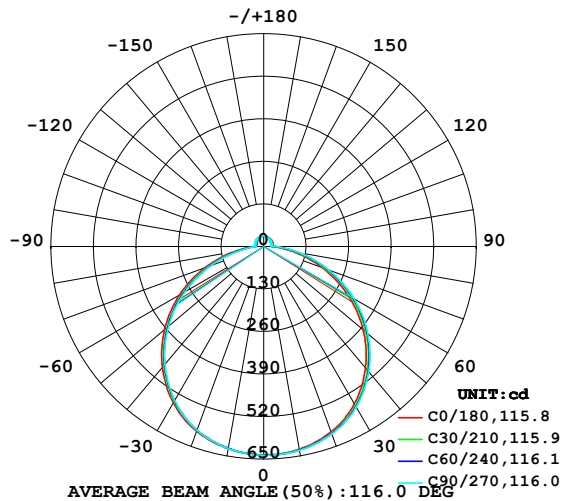


LUMINAIRE PHOTOMETRIC TEST REPORT

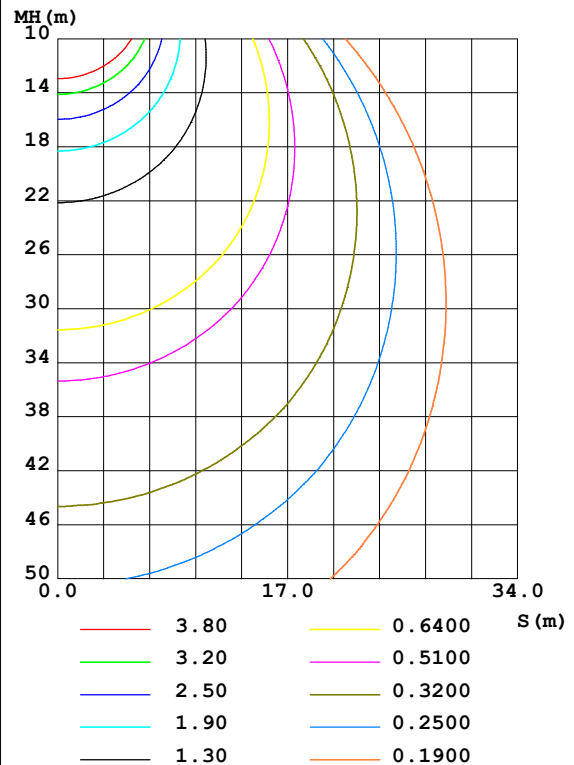
Test:U:120.6V I:0.3310A P:33.80W PF:0.8480 Freq:60.00Hz Lamp Flux:2109.03x1 lm		
NAME: DRF19-34DOB-95C-120D-BL 整灯 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:19寸	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 62.40 lm/W			
MODEL		I _{max} (cd)	639.1	S/MH (C0/180)	1.29
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	1.26
RATED VOLTAGE (V)		TOTAL FLUX (lm)	2109.0	η UP, DN (C0-180)	4.0, 47.3
NOMINAL FLUX (lm)	2109.03	CIE CLASS	DIRECT	η UP, DN (C180-360)	4.3, 44.4
LAMPS INSIDE	1	η up (%)	8.3	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)		η down (%)	91.7	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	628.6	631.5	632.7	631.4	627.8	626.4	627.0	628.6	0- 10	60.48	60.48	2.87,2.87
20	602.8	607.9	609.4	606.6	600.6	597.6	597.0	600.7	10- 20	174.7	235.2	11.2,11.2
30	555.0	563.2	565.8	561.4	552.3	545.8	543.9	549.3	20- 30	268.2	503.4	23.9,23.9
40	484.2	495.3	499.4	493.3	481.9	473.2	470.0	476.4	30- 40	326.4	829.8	39.3,39.3
50	397.2	410.4	415.9	408.7	395.9	384.5	380.1	388.0	40- 50	341.5	1171	55.5,55.5
60	297.4	312.3	318.5	311.4	297.6	284.2	278.5	286.7	50- 60	312.1	1483	70.3,70.3
70	191.1	205.6	211.6	206.0	191.6	177.5	171.8	179.3	60- 70	242.9	1726	81.9,81.9
80	90.06	102.8	109.3	104.2	92.16	79.49	74.01	80.69	70- 80	148.3	1875	88.9,88.9
90	27.65	30.86	33.26	31.09	27.70	25.98	27.07	27.96	80- 90	59.76	1934	91.7,91.7
100	27.60	25.07	23.94	23.59	25.95	25.98	28.33	28.04	90-100	28.46	1963	93.1,93.1
110	28.03	24.43	24.84	23.34	26.66	26.35	28.86	28.07	100-110	27.39	1990	94.4,94.4
120	28.38	25.71	25.37	24.82	27.69	28.23	29.80	29.69	110-120	26.43	2017	95.6,95.6
130	29.46	27.36	26.58	26.62	29.12	29.89	30.91	31.14	120-130	25.20	2042	96.8,96.8
140	29.89	28.63	27.65	27.89	29.87	30.73	31.08	31.53	130-140	22.71	2065	97.9,97.9
150	29.89	29.11	28.31	28.55	30.16	30.86	31.03	31.06	140-150	18.72	2083	98.8,98.8
160	30.08	29.01	29.08	28.70	30.54	30.35	30.92	30.21	150-160	13.81	2097	99.4,99.4
170	33.14	31.93	32.88	31.91	32.83	32.93	33.52	32.79	160-170	8.768	2106	99.9,99.9
180	34.43	33.58	34.70	33.44	34.45	33.58	34.67	33.43	170-180	3.163	2109	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 1001.5 lm

%lum = 47.5%

%lamp = 47.5%

Conical surface Flux(120deg): 1483.4 lm

%lum = 70.3%

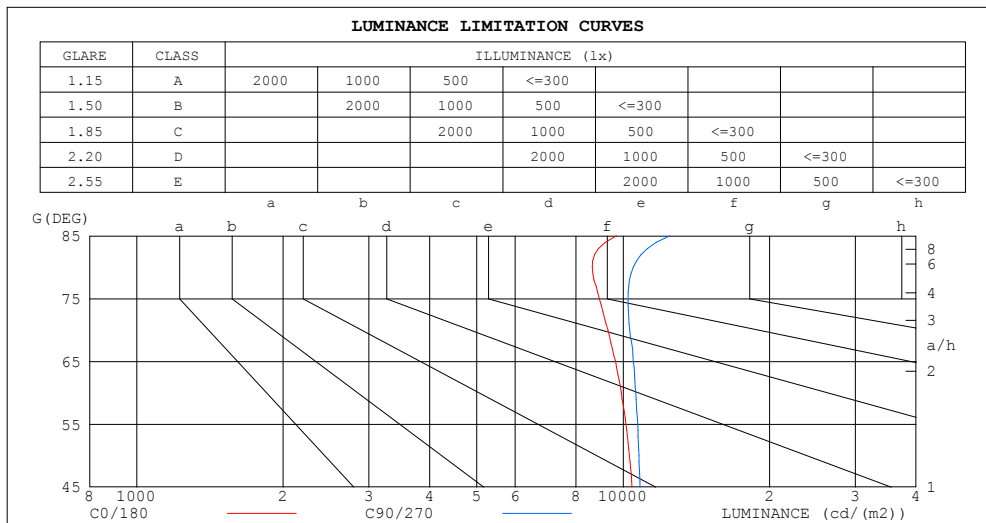
%lamp = 70.3%

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:120.6V I:0.3310A P:33.80W PF:0.8480 Freq:60.00Hz Lamp Flux:2109.03x1 lm		
NAME: DRF19-34DOB-95C-120D-BL 整灯 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:19寸	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	9684	12470
80	8643	10488
75	8938	10236
70	9310	10313
65	9646	10495
60	9913	10617
55	10131	10721
50	10298	10783
45	10428	10823

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:120.6V I:0.3310A P:33.80W PF:0.8480 Freq:60.00Hz Lamp Flux:2109.03x1 lm					
NAME: DRF19-34DOB-95C-120D-BL 整灯 4000K			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	.321	.183	.058	.311	.178	.056	.293	.168	.054	.277	.160	.051	.262	.152	.049	
2.0	.297	.163	.050	.288	.159	.049	.272	.151	.047	.257	.144	.045	.243	.138	.043	
3.0	.272	.145	.043	.265	.142	.043	.250	.136	.041	.237	.130	.040	.225	.124	.038	
4.0	.250	.130	.038	.243	.127	.038	.230	.122	.036	.218	.117	.035	.207	.113	.034	
5.0	.231	.118	.034	.224	.115	.034	.213	.111	.033	.202	.107	.032	.192	.102	.031	
6.0	.213	.107	.031	.208	.105	.030	.197	.101	.029	.187	.097	.029	.178	.094	.028	
7.0	.198	.098	.028	.193	.096	.027	.184	.093	.027	.175	.090	.026	.166	.086	.025	
8.0	.185	.090	.025	.180	.089	.025	.172	.086	.025	.164	.083	.024	.156	.080	.023	
9.0	.173	.084	.023	.169	.082	.023	.161	.080	.023	.154	.077	.022	.147	.074	.022	
10.0	.163	.078	.022	.159	.077	.021	.152	.074	.021	.145	.072	.020	.138	.070	.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	.254	.254	.254	.217	.217	.217	.148	.148	.148	.085	.085	.085	.027	.027	.027	
1.0	.245	.220	.197	.209	.189	.170	.143	.130	.117	.082	.075	.068	.026	.024	.022	
2.0	.237	.196	.161	.203	.169	.140	.139	.117	.097	.080	.068	.057	.026	.022	.019	
3.0	.229	.179	.138	.197	.154	.120	.135	.107	.084	.078	.063	.050	.025	.020	.016	
4.0	.222	.166	.123	.190	.143	.107	.131	.100	.075	.076	.058	.044	.024	.019	.015	
5.0	.214	.156	.112	.184	.135	.097	.127	.094	.069	.073	.055	.041	.024	.018	.013	
6.0	.207	.147	.104	.178	.128	.091	.123	.089	.064	.071	.053	.038	.023	.017	.013	
7.0	.201	.141	.099	.172	.122	.086	.119	.085	.061	.069	.050	.036	.022	.016	.012	
8.0	.194	.135	.094	.167	.117	.082	.116	.082	.058	.067	.048	.035	.022	.016	.011	
9.0	.188	.130	.091	.162	.113	.079	.112	.079	.056	.065	.047	.034	.021	.015	.011	
10.0	.182	.126	.088	.157	.109	.077	.109	.077	.055	.064	.045	.033	.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:120.6V I:0.3310A P:33.80W PF:0.8480 Freq:60.00Hz Lamp Flux:2109.03x1 lm											
NAME: DRF19-34DOB-95C-120D-BL 整灯 4000K						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		18.0	19.4	18.4	19.8	20.1	18.2	19.7	18.6	20.0	20.4
	3H	19.6	20.9	20.0	21.3	21.7	19.9	21.2	20.3	21.6	22.0
	4H	20.2	21.5	20.7	21.9	22.3	20.7	21.9	21.1	22.3	22.7
	6H	20.7	21.9	21.2	22.3	22.8	21.3	22.4	21.7	22.9	23.3
	8H	20.9	22.1	21.4	22.5	23.0	21.5	22.7	22.0	23.1	23.6
	12H	21.1	22.2	21.6	22.6	23.1	21.8	22.9	22.3	23.3	23.8
4H	2H	18.7	19.9	19.1	20.3	20.7	18.8	20.1	19.3	20.5	20.9
	3H	20.4	21.5	20.9	21.9	22.4	20.7	21.8	21.2	22.2	22.7
	4H	21.2	22.2	21.7	22.7	23.2	21.6	22.6	22.1	23.0	23.5
	6H	21.9	22.7	22.4	23.2	23.8	22.4	23.2	22.9	23.7	24.3
	8H	22.1	22.9	22.7	23.5	24.0	22.7	23.5	23.2	24.0	24.6
	12H	22.4	23.1	22.9	23.6	24.2	23.0	23.8	23.6	24.3	24.9
8H	4H	21.5	22.4	22.1	22.9	23.4	21.9	22.7	22.4	23.2	23.8
	6H	22.4	23.1	23.0	23.6	24.2	22.8	23.5	23.4	24.1	24.7
	8H	22.8	23.4	23.4	23.9	24.6	23.3	23.9	23.9	24.5	25.1
	12H	23.1	23.7	23.7	24.2	24.9	23.7	24.3	24.3	24.9	25.5
12H	4H	21.6	22.3	22.1	22.9	23.4	21.9	22.6	22.4	23.2	23.8
	6H	22.5	23.1	23.1	23.7	24.3	22.9	23.5	23.5	24.1	24.7
	8H	22.9	23.5	23.5	24.0	24.7	23.4	24.0	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, 2109 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:120.6V I:0.3310A P:33.80W PF:0.8480 Freq:60.00Hz Lamp Flux:2109.03x1 lm		
NAME: DRF19-34DOB-95C-120D-BL 整灯 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:19寸	Shielding Angle:

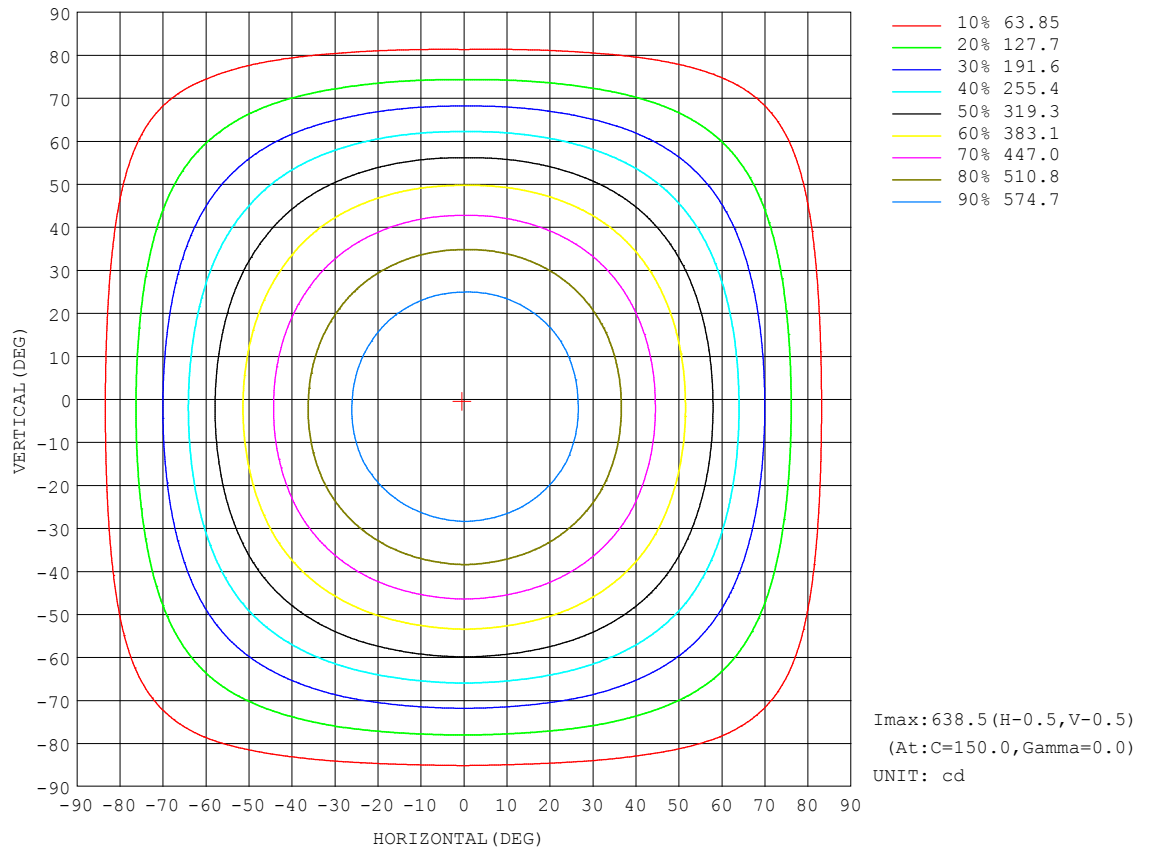
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	54	42	36	53	42	35	52	41	35	28
0.80	64	52	45	63	52	44	60	50	44	36
1.00	72	61	53	71	60	53	68	61	52	44
1.25	79	68	61	77	67	60	74	65	59	51
1.50	84	74	67	82	73	66	78	70	64	55
2.00	91	82	75	89	81	74	84	77	72	62
2.50	96	87	81	93	85	79	88	82	77	66
3.00	99	92	86	96	89	84	91	85	81	70
4.00	103	97	92	100	95	90	94	90	86	75
5.00	106	100	96	102	98	94	97	93	89	78
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:120.6V I:0.3310A P:33.80W PF:0.8480 Freq:60.00Hz Lamp Flux:2109.03x1 lm		
NAME: DRF19-34DOB-95C-120D-BL 整灯 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:19寸	Shielding Angle:

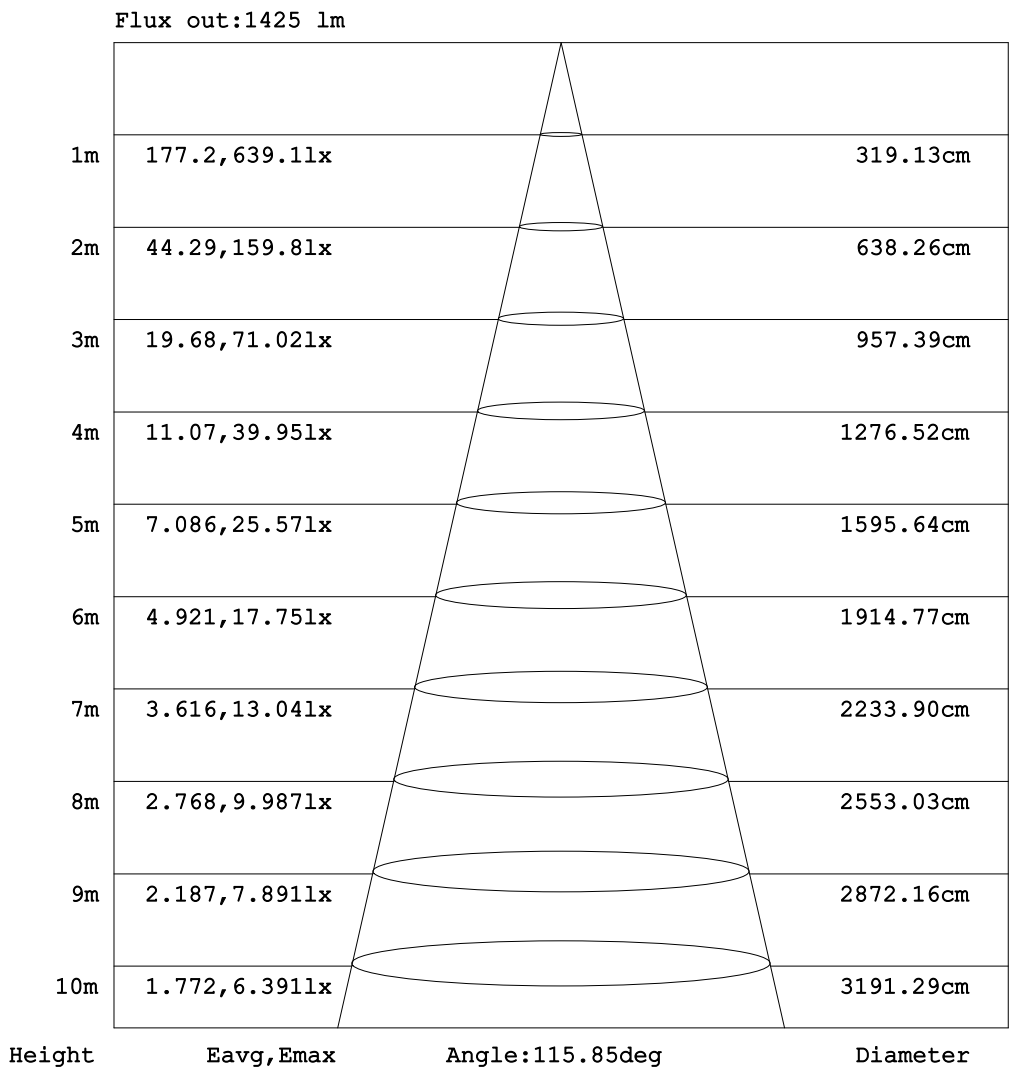


C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2024-04-10

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:120.6V I:0.3310A P:33.80W PF:0.8480 Freq:60.00Hz Lamp Flux:2109.03x1 lm		
NAME: DRF19-34DOB-95C-120D-BL 整灯 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:19寸	Shielding Angle:

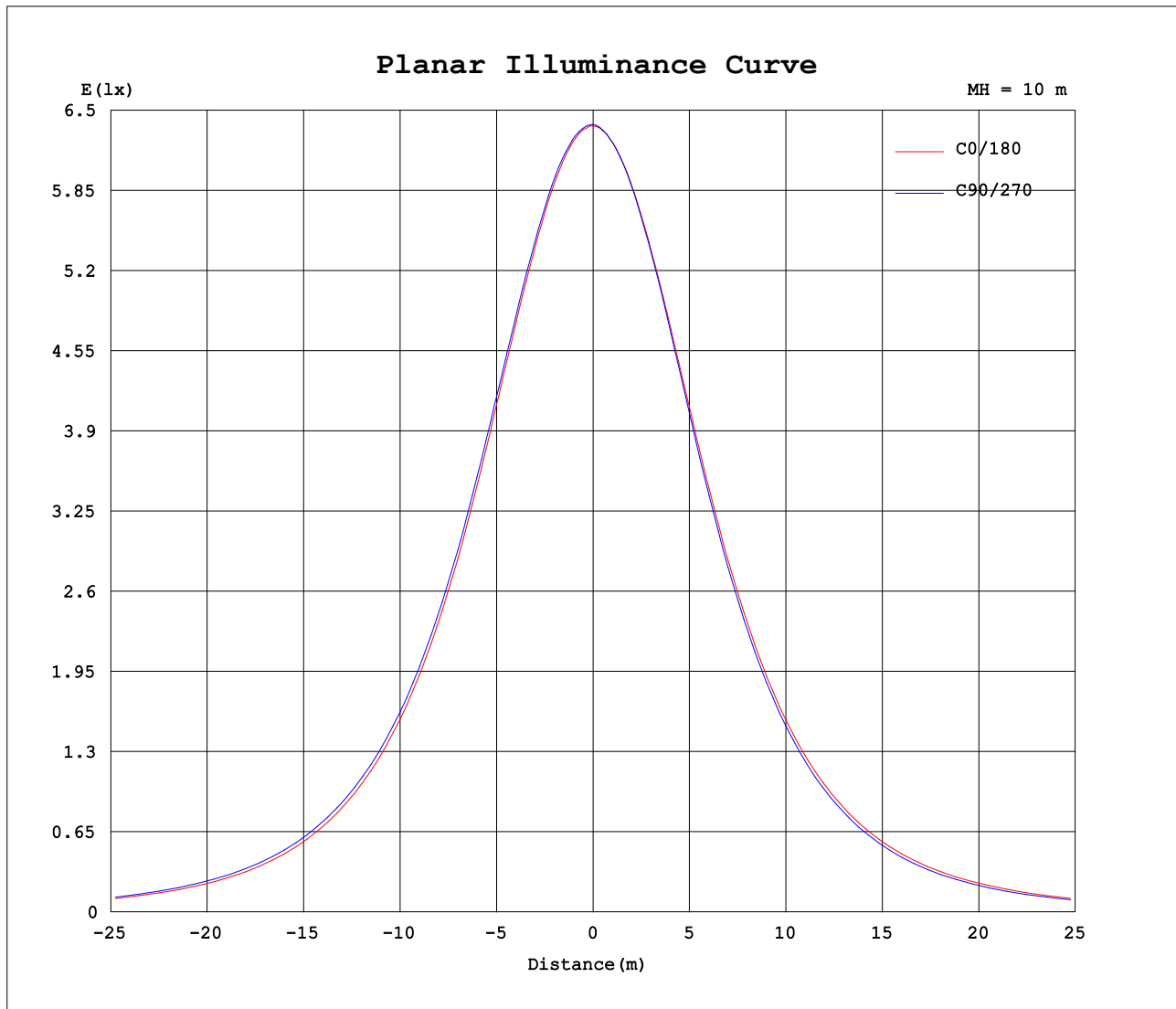


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:120.6V I:0.3310A P:33.80W PF:0.8480 Freq:60.00Hz Lamp Flux:2109.03x1 lm		
NAME: DRF19-34DOB-95C-120D-BL 整灯 4000K	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	637	638	638	638	638	639	637	638	638	638	638	639							
5	635	636	637	637	637	637	634	634	634	634	635	636							
10	629	631	632	633	632	631	628	627	626	627	628	629							
15	618	621	622	623	622	621	617	615	614	614	616	618							
20	603	607	609	609	607	606	601	598	597	597	599	602							
25	583	587	590	591	589	586	580	576	574	574	577	580							
30	555	561	565	566	563	560	552	547	545	544	547	552							
35	522	530	534	535	532	528	519	513	510	509	513	518							
40	484	493	497	499	496	491	482	475	472	470	474	479							
45	442	453	457	459	456	450	440	432	429	427	431	437							
50	397	408	413	416	412	406	396	387	383	380	385	391							
55	349	360	366	369	364	358	348	338	333	331	335	341							
60	297	309	316	319	315	308	298	287	282	279	284	290							
65	245	257	263	266	262	257	246	234	227	225	229	236							
70	191	201	210	212	210	202	192	181	174	172	176	183							
75	139	149	157	159	157	150	140	129	123	120	124	131							
80	90.1	99.6	106	109	107	102	92.2	82.0	77.0	74.0	77.9	83.4							
85	50.6	57.9	62.5	65.2	63.3	59.2	52.4	44.9	41.5	39.3	42.3	46.1							
90	27.7	29.9	31.8	33.3	32.1	30.1	27.7	25.7	26.2	27.1	27.8	28.1							
95	26.9	25.3	23.9	23.2	23.1	23.4	25.3	25.9	26.8	27.7	28.2	28.3							
100	27.6	25.8	24.3	23.9	23.7	23.5	26.0	25.6	26.3	28.3	27.9	28.1							
105	28.1	25.4	23.7	24.6	23.5	22.8	26.5	25.4	26.1	28.8	27.6	27.7							
110	28.0	25.1	23.7	24.8	23.4	23.3	26.7	26.0	26.7	28.9	28.1	28.0							
115	27.9	25.6	24.3	24.9	24.0	24.0	27.0	26.9	27.6	29.2	29.0	28.8							
120	28.4	26.3	25.1	25.4	24.8	24.9	27.7	27.9	28.5	29.8	29.8	29.6							
125	28.9	27.1	25.9	25.9	25.7	25.8	28.4	28.8	29.4	30.4	30.6	30.4							
130	29.5	27.9	26.8	26.6	26.5	26.7	29.1	29.6	30.1	30.9	31.2	31.1							
135	29.8	28.7	27.6	27.2	27.4	27.4	29.6	30.2	30.7	31.1	31.5	31.5							
140	29.9	29.3	28.0	27.7	28.0	27.8	29.9	30.4	31.0	31.1	31.5	31.6							
145	29.9	29.6	28.3	28.0	28.4	28.2	29.9	30.6	31.2	31.1	31.3	31.5							
150	29.9	29.7	28.5	28.3	28.7	28.4	30.2	30.6	31.1	31.0	30.9	31.2							
155	30.0	29.6	28.6	28.7	28.8	28.6	30.4	30.4	30.9	31.0	30.5	30.7							
160	30.1	29.4	28.6	29.1	28.8	28.6	30.5	30.1	30.6	30.9	30.1	30.3							
165	31.4	30.6	30.1	30.5	30.7	30.4	31.7	31.7	32.4	32.3	31.5	31.8							
170	33.1	32.4	31.5	32.9	32.4	31.4	32.8	32.3	33.6	33.5	32.4	33.2							
175	34.0	33.1	32.9	34.0	33.0	32.6	33.7	32.9	33.6	34.2	33.0	33.1							
180	34.4	33.4	33.8	34.7	33.4	33.5	34.5	33.4	33.8	34.7	33.4	33.4							

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: