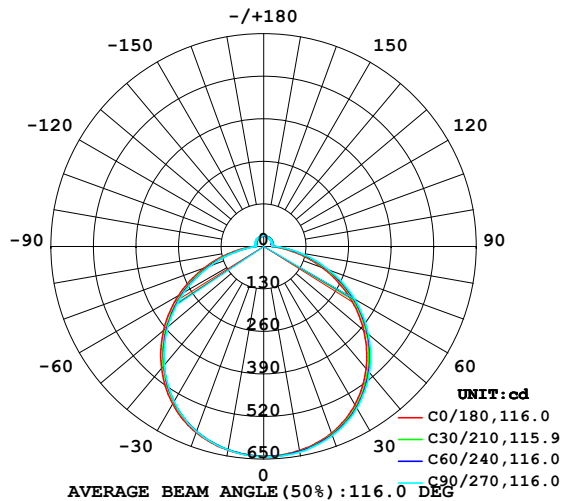


LUMINAIRE PHOTOMETRIC TEST REPORT

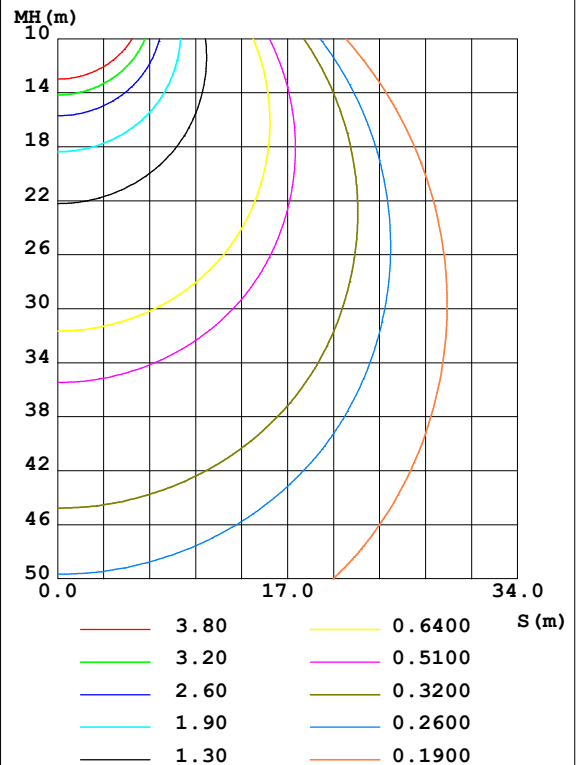
Test:U:120.5V I:0.3270A P:34.00W PF:0.8600 Freq:60.00Hz Lamp Flux:2128.59x1 lm		
NAME: DRF19-34DOB-95C-120D-WH 整灯 3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:19寸	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 62.61 lm/W			
MODEL		I _{max} (cd)	644.1	S/MH (C0/180)	1.29
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	1.27
RATED VOLTAGE (V)		TOTAL FLUX (lm)	2128.6	η UP, DN (C0-180)	4.1, 47.1
NOMINAL FLUX (lm)	2128.59	CIE CLASS	DIRECT	η UP, DN (C180-360)	4.3, 44.5
LAMPS INSIDE	1	η up (%)	8.4	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)		η down (%)	91.6	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	633.0	635.4	637.6	636.7	631.8	630.5	630.9	633.6	0- 10	60.92	60.92	2.86,2.86
20	606.9	611.7	614.5	612.2	604.9	601.2	601.3	605.3	10- 20	176.0	236.9	11.1,11.1
30	558.1	566.3	570.4	566.3	556.4	549.0	548.0	553.6	20- 30	270.1	507.0	23.8,23.8
40	486.8	497.5	502.6	497.8	486.0	475.8	473.1	480.3	30- 40	328.7	835.7	39.3,39.3
50	399.3	412.0	418.1	412.8	399.8	387.5	382.9	391.1	40- 50	343.9	1180	55.4,55.4
60	299.4	313.3	320.3	314.9	301.1	286.9	281.1	289.7	50- 60	314.5	1494	70.2,70.2
70	192.3	205.6	212.1	207.5	194.0	180.1	174.6	181.9	60- 70	244.9	1739	81.7,81.7
80	90.69	102.6	108.9	104.1	93.51	81.78	76.59	82.44	70- 80	149.8	1889	88.7,88.7
90	27.30	31.01	33.46	31.12	27.86	26.22	26.45	26.94	80- 90	60.28	1949	91.6,91.6
100	27.65	26.26	25.46	24.64	26.38	26.24	27.91	27.37	90-100	28.75	1978	92.9,92.9
110	28.50	25.82	26.38	24.31	27.01	26.67	28.63	27.82	100-110	27.94	2006	94.2,94.2
120	29.15	27.32	26.91	25.83	27.98	28.61	29.94	29.89	110-120	27.09	2033	95.5,95.5
130	30.60	29.23	28.27	27.68	29.35	30.40	31.45	31.74	120-130	25.98	2059	96.7,96.7
140	31.54	30.66	29.31	28.84	30.11	31.19	31.94	32.64	130-140	23.53	2082	97.8,97.8
150	31.92	31.14	29.73	29.33	30.50	31.20	32.15	32.69	140-150	19.45	2102	98.7,98.7
160	32.05	30.93	30.28	29.32	30.95	30.60	32.15	31.96	150-160	14.37	2116	99.4,99.4
170	34.85	33.55	33.82	32.99	34.10	33.62	34.39	34.41	160-170	9.101	2125	99.8,99.8
180	35.86	34.66	35.65	34.78	35.85	34.67	35.63	34.77	170-180	3.278	2129	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 1008.5 lm

%lum = 47.4%

%lamp = 47.4%

Conical surface Flux(120deg): 1494.1 lm

%lum = 70.2%

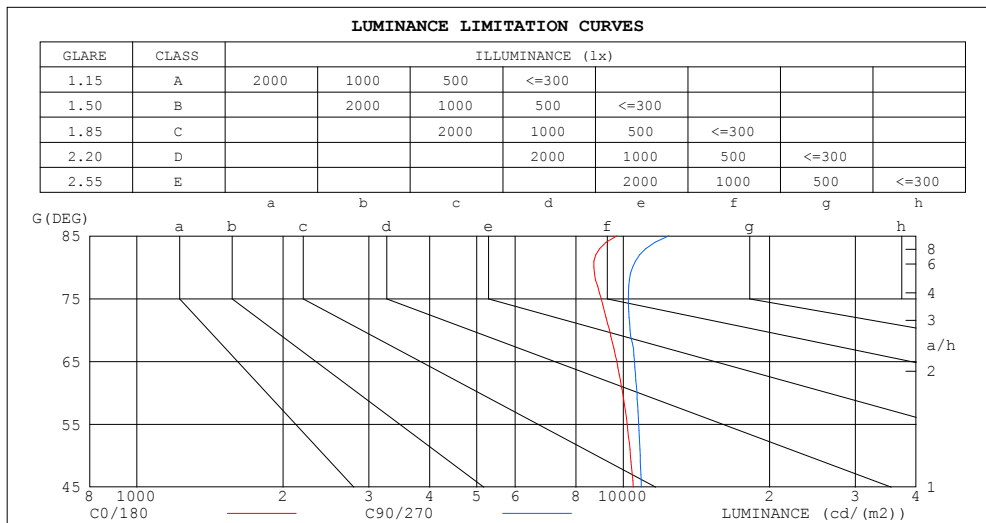
%lamp = 70.2%

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:0.3270A P:34.00W PF:0.8600 Freq:60.00Hz Lamp Flux:2128.59x1 lm		
NAME: DRF19-34DOB-95C-120D-WH 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	9709	12419
80	8705	10455
75	9010	10246
70	9373	10334
65	9705	10551
60	9979	10676
55	10189	10768
50	10353	10840
45	10486	10897

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:0.3270A P:34.00W PF:0.8600 Freq:60.00Hz Lamp Flux:2128.59x1 lm					
NAME: DRF19-34DOB-95C-120D-WH 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	.321	.183	.058	.311	.178	.056	.293	.168	.054	.277	.160	.051	.261	.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	.224	.124	.038		
4.0	.250	.130	.038	.243	.127	.038	.230	.122	.036	.218	.117	.035	.207	.112	.034		
5.0	.231	.118	.034	.224	.115	.034	.213	.111	.033	.202	.106	.032	.191	.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	.024	.163	.083	.024	.156	.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	.152	.074	.021	.145	.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	.255	.255	.255	.218	.218	.218	.149	.149	.149	.085	.085	.085	.027	.027	.027	
1.0	.246	.221	.198	.210	.190	.171	.144	.130	.118	.083	.075	.069	.027	.024	.022	
2.0	.238	.197	.163	.204	.170	.141	.140	.117	.098	.081	.068	.057	.026	.022	.019	
3.0	.230	.180	.140	.198	.155	.121	.136	.108	.085	.078	.063	.050	.025	.020	.016	
4.0	.223	.167	.124	.191	.144	.108	.132	.100	.076	.076	.059	.045	.024	.019	.015	
5.0	.216	.157	.113	.185	.136	.098	.128	.095	.070	.074	.056	.041	.024	.018	.014	
6.0	.208	.148	.105	.179	.129	.092	.124	.090	.065	.072	.053	.039	.023	.017	.013	
7.0	.202	.142	.100	.173	.123	.087	.120	.086	.062	.070	.051	.037	.023	.017	.012	
8.0	.195	.136	.095	.168	.118	.083	.116	.083	.059	.068	.049	.035	.022	.016	.012	
9.0	.189	.131	.092	.163	.114	.080	.113	.080	.057	.066	.047	.034	.021	.016	.011	
10.0	.184	.127	.089	.158	.110	.078	.110	.078	.055	.064	.046	.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:120.5V I:0.3270A P:34.00W PF:0.8600 Freq:60.00Hz Lamp Flux:2128.59x1 lm											
NAME: DRF19-34DOB-95C-120D-WH 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		18.0	19.4	18.3	19.7	20.1	18.2	19.6	18.6	20.0	20.3
	3H	19.5	20.8	19.9	21.2	21.6	19.9	21.2	20.3	21.6	22.0
	4H	20.2	21.4	20.6	21.8	22.3	20.6	21.8	21.0	22.2	22.7
	6H	20.7	21.9	21.2	22.3	22.7	21.2	22.4	21.7	22.8	23.3
	8H	20.9	22.0	21.4	22.5	22.9	21.5	22.6	21.9	23.0	23.5
	12H	21.1	22.2	21.5	22.6	23.1	21.7	22.8	22.2	23.2	23.7
4H	2H	18.6	19.9	19.0	20.3	20.7	18.8	20.0	19.2	20.4	20.9
	3H	20.4	21.5	20.9	21.9	22.4	20.7	21.7	21.1	22.2	22.7
	4H	21.2	22.2	21.7	22.6	23.1	21.5	22.5	22.0	23.0	23.5
	6H	21.8	22.7	22.4	23.2	23.7	22.3	23.2	22.8	23.7	24.2
	8H	22.1	22.9	22.6	23.4	24.0	22.6	23.4	23.2	24.0	24.5
	12H	22.3	23.1	22.9	23.6	24.2	22.9	23.7	23.5	24.2	24.8
8H	4H	21.5	22.3	22.0	22.8	23.4	21.8	22.6	22.4	23.1	23.7
	6H	22.4	23.0	22.9	23.6	24.2	22.8	23.4	23.3	24.0	24.6
	8H	22.7	23.3	23.3	23.9	24.5	23.2	23.8	23.8	24.4	25.0
	12H	23.1	23.6	23.7	24.2	24.9	23.7	24.2	24.3	24.8	25.4
12H	4H	21.5	22.3	22.1	22.8	23.4	21.8	22.6	22.4	23.1	23.7
	6H	22.5	23.1	23.0	23.6	24.2	22.8	23.4	23.4	24.0	24.6
	8H	22.9	23.4	23.5	24.0	24.7	23.4	23.9	24.0	24.5	25.1
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, 2129 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:0.3270A P:34.00W PF:0.8600 Freq:60.00Hz Lamp Flux:2128.59x1 lm		
NAME: DRF19-34DOB-95C-120D-WH 整灯 3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:19寸	Shielding Angle:

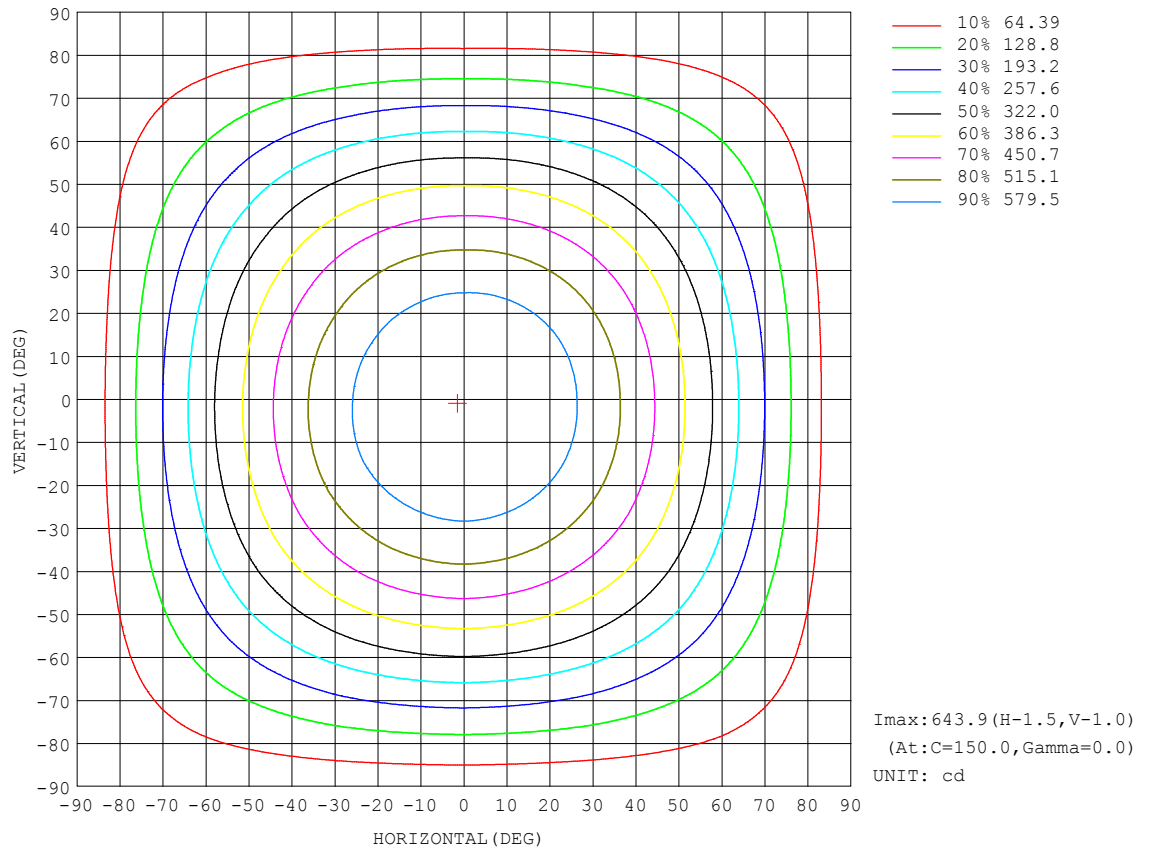
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	54	42	35	53	42	35	52	41	35	28
0.80	64	52	45	63	51	44	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	50
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	95	87	81	93	85	79	88	82	77	66
3.00	99	91	86	96	89	84	91	85	81	70
4.00	103	97	92	100	94	90	94	90	86	75
5.00	106	100	96	102	98	94	96	93	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:0.3270A P:34.00W PF:0.8600 Freq:60.00Hz Lamp Flux:2128.59x1 lm		
NAME: DRF19-34DOB-95C-120D-WH 整灯 3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:19寸	Shielding Angle:

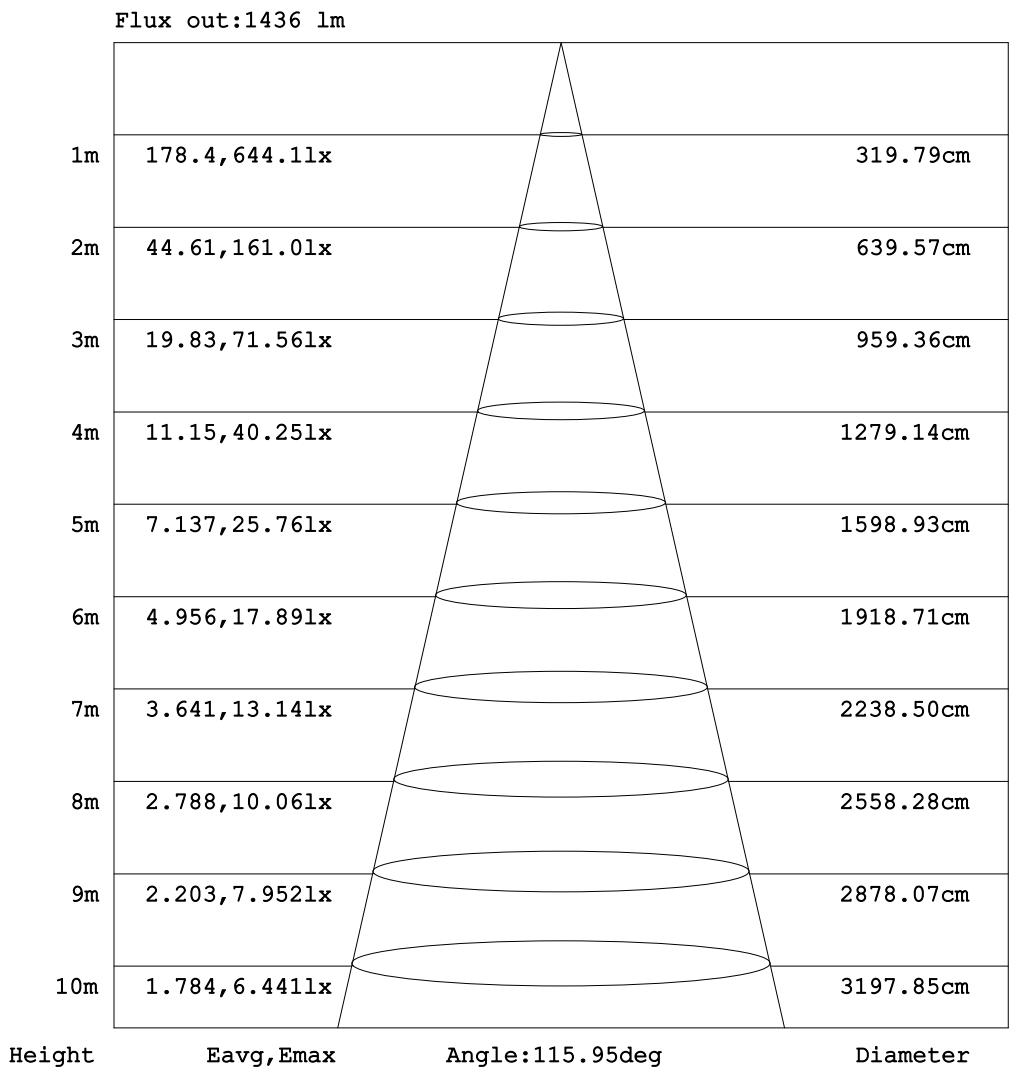


C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2024-04-10

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:0.3270A P:34.00W PF:0.8600 Freq:60.00Hz Lamp Flux:2128.59x1 lm		
NAME: DRF19-34DOB-95C-120D-WH 整灯 3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:19寸	Shielding Angle:

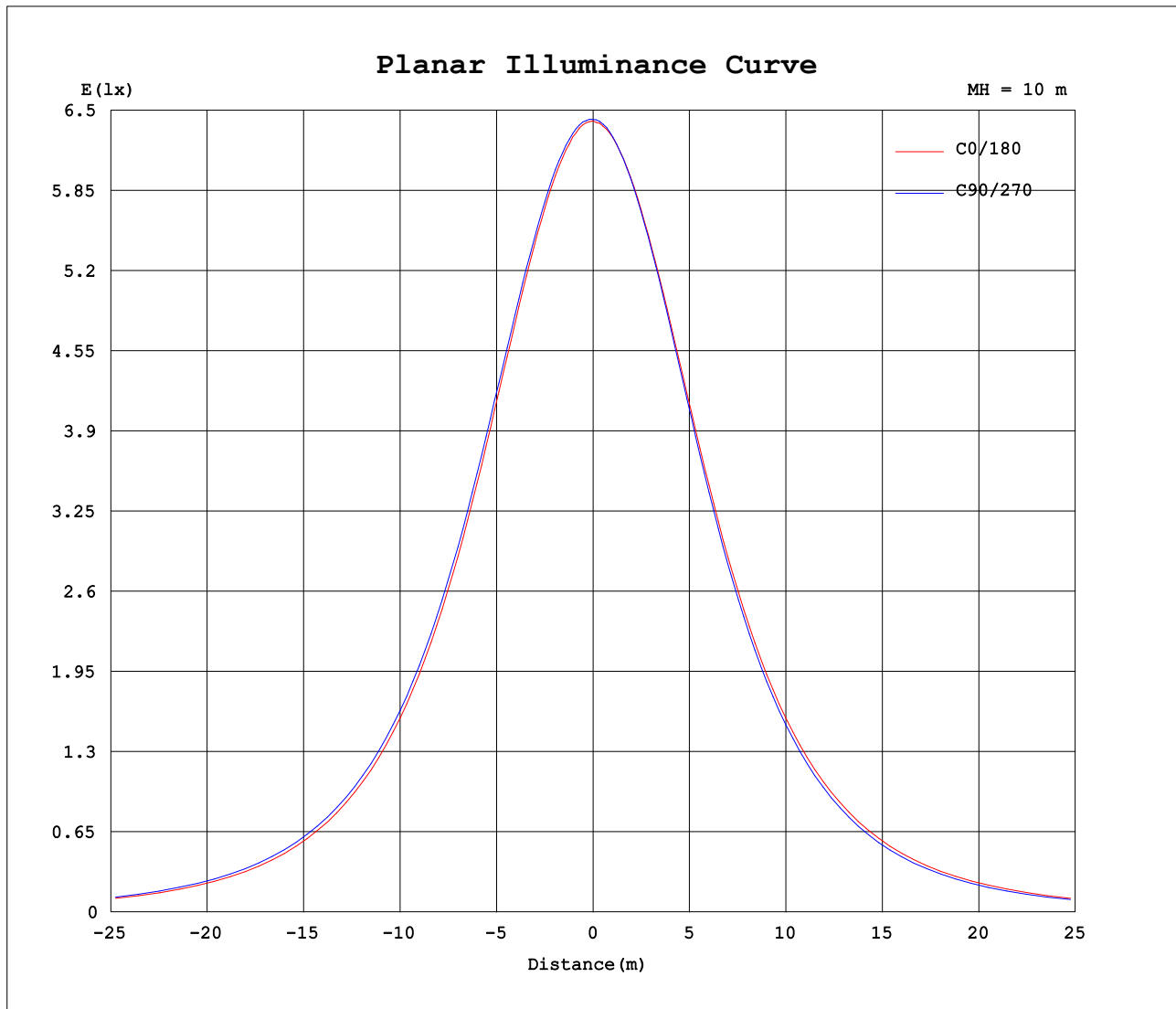


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.3270A P:34.00W PF:0.8600 Freq:60.00Hz Lamp Flux:2128.59x1 lm		
NAME: DRF19-34DOB-95C-120D-WH 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	641	642	642	643	644	644	641	642	642	643	644	644							
5	639	640	641	642	642	642	639	638	638	639	640	641							
10	633	635	636	638	637	636	632	631	630	631	633	634							
15	622	625	627	628	627	626	621	619	618	619	621	623							
20	607	611	613	615	613	611	605	601	601	601	604	606							
25	586	591	593	595	594	591	584	579	577	578	581	585							
30	558	565	568	570	568	565	556	550	548	548	551	556							
35	525	532	536	539	536	532	523	517	514	513	517	522							
40	487	495	500	503	500	495	486	478	474	473	478	483							
45	445	455	459	462	460	455	445	436	432	430	435	440							
50	399	409	415	418	415	410	400	390	385	383	388	394							
55	351	362	367	371	368	363	352	341	336	333	339	345							
60	299	310	316	320	318	312	301	289	285	281	287	293							
65	246	257	263	268	265	259	248	236	231	228	232	239							
70	192	202	209	212	211	204	194	183	177	175	178	185							
75	140	149	156	159	158	151	142	132	126	124	127	134							
80	90.7	99.9	105	109	107	102	93.5	83.9	79.6	76.6	79.9	85.0							
85	50.8	58.2	62.0	64.9	62.9	59.1	53.1	46.2	43.3	41.0	43.3	46.8							
90	27.3	30.0	32.0	33.5	32.2	30.1	27.9	26.2	26.3	26.4	26.7	27.2							
95	26.6	26.0	25.3	24.7	24.4	24.3	25.8	26.4	26.8	27.1	27.3	27.6							
100	27.6	26.7	25.8	25.5	25.0	24.3	26.4	26.1	26.4	27.9	27.1	27.6							
105	28.4	26.5	25.2	26.1	24.7	23.7	26.9	25.8	26.2	28.4	26.9	27.4							
110	28.5	26.3	25.3	26.4	24.6	24.0	27.0	26.4	26.9	28.6	27.7	27.9							
115	28.5	26.9	26.0	26.5	25.2	24.8	27.3	27.3	27.9	29.2	28.8	28.9							
120	29.2	27.8	26.8	26.9	26.0	25.7	28.0	28.3	28.9	29.9	29.9	29.9							
125	29.8	28.8	27.8	27.6	26.9	26.6	28.7	29.2	29.8	30.7	30.9	30.9							
130	30.6	29.7	28.7	28.3	27.9	27.5	29.4	30.1	30.7	31.5	31.7	31.8							
135	31.2	30.6	29.6	28.9	28.7	28.2	29.9	30.6	31.4	31.8	32.2	32.4							
140	31.5	31.3	30.0	29.3	29.2	28.5	30.1	30.7	31.6	31.9	32.5	32.8							
145	31.8	31.6	30.3	29.5	29.5	28.8	30.2	30.8	31.7	32.0	32.5	33.0							
150	31.9	31.7	30.6	29.7	29.6	29.1	30.5	30.8	31.6	32.1	32.4	33.0							
155	32.0	31.6	30.6	30.1	29.6	29.2	30.8	30.6	31.3	32.2	32.1	32.7							
160	32.0	31.4	30.5	30.3	29.5	29.1	31.0	30.3	30.9	32.2	31.7	32.2							
165	33.2	32.5	31.8	31.7	31.4	31.3	32.6	32.2	32.7	33.3	33.0	33.7							
170	34.8	34.2	32.9	33.8	33.4	32.6	34.1	33.1	34.1	34.4	33.8	35.0							
175	35.6	34.8	34.0	34.9	34.1	34.0	35.1	34.0	34.1	35.0	34.2	34.8							
180	35.9	34.7	34.6	35.6	34.6	35.0	35.8	34.7	34.6	35.6	34.6	34.9							

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: