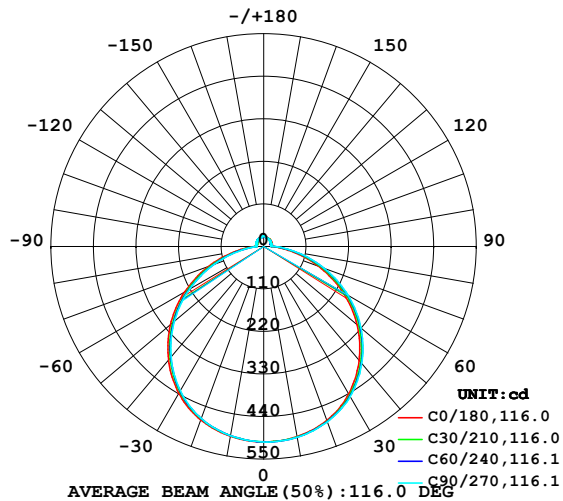


LUMINAIRE PHOTOMETRIC TEST REPORT

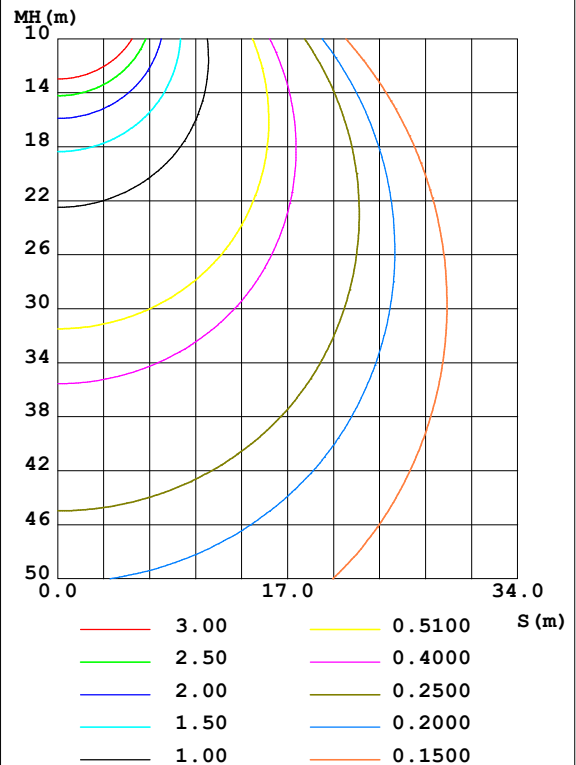
Test:U:120.5V I:0.3310A P:32.50W PF:0.8130 Freq:60.00Hz Lamp Flux:1668.84x1 lm		
NAME: DRF19-34DOB-95C-120D-WH 整灯 2700K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:19寸	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 51.35 lm/W			
MODEL		I _{max} (cd)	505.7	S/MH (C0/180)	1.29
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	1.27
RATED VOLTAGE (V)		TOTAL FLUX (lm)	1668.8	η UP, DN (C0-180)	4.0, 47.3
NOMINAL FLUX (lm)	1668.84	CIE CLASS	DIRECT	η UP, DN (C180-360)	4.2, 44.6
LAMPS INSIDE	1	η up (%)	8.2	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)		η down (%)	91.8	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	499.2	500.3	500.8	499.9	498.1	496.8	496.4	497.8	0- 10	47.92	47.92	2.87,2.87
20	478.7	481.4	482.4	480.2	477.2	473.9	473.4	475.8	10- 20	138.4	186.3	11.2,11.2
30	440.1	445.4	447.9	444.0	438.7	433.1	431.4	435.1	20- 30	212.5	398.8	23.9,23.9
40	384.2	391.7	394.7	390.5	382.9	375.5	372.8	377.6	30- 40	258.6	657.4	39.4,39.4
50	315.4	324.6	328.6	323.5	314.7	305.6	302.0	307.6	40- 50	270.7	928.1	55.6,55.6
60	236.1	247.3	252.1	246.7	236.3	225.2	221.5	227.0	50- 60	247.6	1176	70.4,70.4
70	151.8	162.8	167.4	162.7	152.4	141.3	136.7	142.5	60- 70	192.3	1368	82,82
80	71.42	81.48	86.24	81.97	73.20	63.13	58.94	64.03	70- 80	117.5	1485	89,89
90	20.98	24.26	26.29	24.16	21.43	19.82	20.16	20.81	80- 90	46.99	1532	91.8,91.8
100	20.82	19.62	19.07	18.71	20.28	19.88	21.16	20.87	90-100	21.86	1554	93.1,93.1
110	21.27	19.21	19.86	18.62	20.90	20.31	21.68	21.05	100-110	21.14	1575	94.4,94.4
120	21.69	20.32	20.33	19.87	21.80	21.88	22.57	22.47	110-120	20.52	1596	95.6,95.6
130	22.70	21.76	21.35	21.34	23.00	23.34	23.74	23.77	120-130	19.68	1616	96.8,96.8
140	23.44	22.88	22.24	22.39	23.72	24.15	24.14	24.33	130-140	17.86	1634	97.9,97.9
150	23.76	23.36	22.77	22.90	24.07	24.35	24.40	24.27	140-150	14.82	1648	98.8,98.8
160	23.99	23.35	23.37	23.02	24.45	24.03	24.43	23.75	150-160	10.99	1659	99.4,99.4
170	26.33	25.47	26.09	25.43	26.26	26.12	26.56	25.94	160-170	6.980	1666	99.8,99.8
180	27.32	26.56	27.43	26.48	27.32	26.56	27.42	26.49	170-180	2.509	1669	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 793.47 lm

%lum = 47.5%

%lamp = 47.5%

Conical surface Flux(120deg): 1175.7 lm

%lum = 70.4%

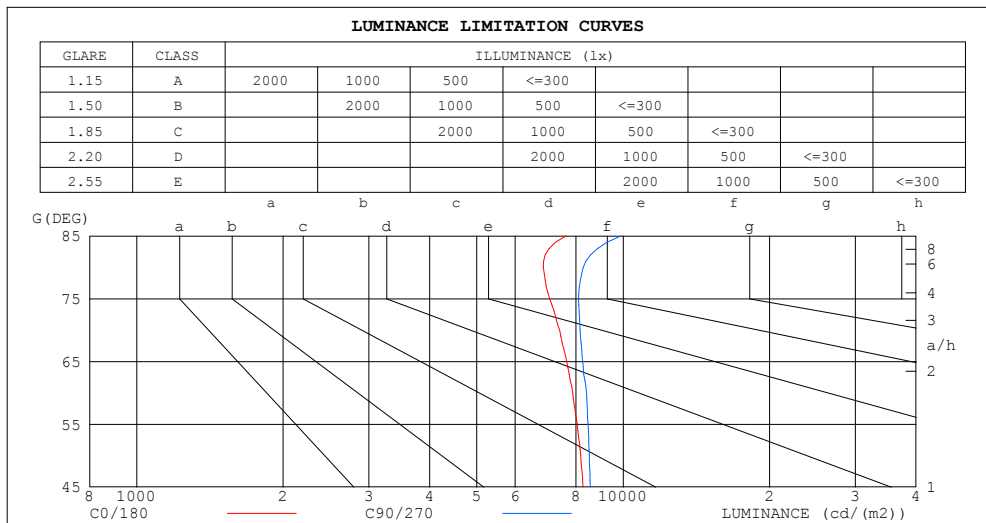
%lamp = 70.4%

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:

LUMINANCE LIMITATION CURVES

Test:U:120.5V I:0.3310A P:32.50W PF:0.8130 Freq:60.00Hz Lamp Flux:1668.84x1 lm		
NAME: DRF19-34DOB-95C-120D-WH 整灯 2700K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:19寸	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	7629	9897
80	6855	8277
75	7059	8100
70	7397	8158
65	7656	8256
60	7871	8402
55	8042	8467
50	8177	8521
45	8273	8560

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:0.3310A P:32.50W PF:0.8130 Freq:60.00Hz Lamp Flux:1668.84x1 lm					
NAME: DRF19-34DOB-95C-120D-WH 整灯 2700K			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	.182	.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	.244	.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	.037	.218	.117	.035	.207	.113	.034		
5.0	.231	.118	.034	.225	.115	.034	.213	.111	.033	.202	.107	.032	.192	.103	.031		
6.0	.214	.107	.031	.208	.105	.030	.197	.101	.029	.188	.097	.029	.178	.094	.028		
7.0	.198	.098	.028	.193	.096	.027	.184	.093	.027	.175	.090	.026	.166	.087	.025		
8.0	.185	.090	.025	.181	.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	.075	.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	.253	.253	.253	.216	.216	.216	.147	.147	.147	.085	.085	.085	.027	.027	.027	
1.0	.244	.219	.196	.209	.188	.169	.143	.129	.117	.082	.075	.068	.026	.024	.022	
2.0	.236	.195	.161	.202	.168	.139	.139	.116	.097	.080	.068	.057	.026	.022	.018	
3.0	.228	.178	.137	.196	.153	.119	.134	.107	.084	.078	.062	.049	.025	.020	.016	
4.0	.221	.165	.122	.190	.142	.106	.130	.099	.075	.075	.058	.044	.024	.019	.015	
5.0	.214	.155	.111	.183	.134	.097	.126	.093	.068	.073	.055	.041	.024	.018	.013	
6.0	.206	.146	.103	.177	.127	.090	.122	.089	.064	.071	.052	.038	.023	.017	.013	
7.0	.200	.140	.098	.172	.121	.085	.119	.085	.060	.069	.050	.036	.022	.016	.012	
8.0	.193	.134	.093	.166	.116	.081	.115	.082	.058	.067	.048	.034	.022	.016	.011	
9.0	.187	.129	.090	.161	.112	.078	.112	.079	.056	.065	.047	.033	.021	.015	.011	
10.0	.182	.125	.087	.156	.108	.076	.109	.076	.054	.063	.045	.032	.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:0.3310A P:32.50W PF:0.8130 Freq:60.00Hz Lamp Flux:1668.84x1 lm											
NAME: DRF19-34DOB-95C-120D-WH 整灯 2700K						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	19.6	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	22.2	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	22.8	22.4	23.2	23.8	22.4	23.2	22.9	23.7	24.3
	8H	22.1	23.0	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	21.6	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	24.0	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	24.8	25.5
12H	4H	21.6	22.3	22.1	22.9	23.4	21.9	22.6	22.4	23.2	23.7
	6H	22.5	23.1	23.1	23.7	24.3	22.9	23.5	23.5	24.1	24.7
	8H	23.0	23.5	23.6	24.1	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, 1669 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 1.8$)

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:

UTILIZATION FACTORS TABLE

Test:U:120.5V I:0.3310A P:32.50W PF:0.8130 Freq:60.00Hz Lamp Flux:1668.84x1 lm		
NAME: DRF19-34DOB-95C-120D-WH 整灯 2700K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:19寸	Shielding Angle:

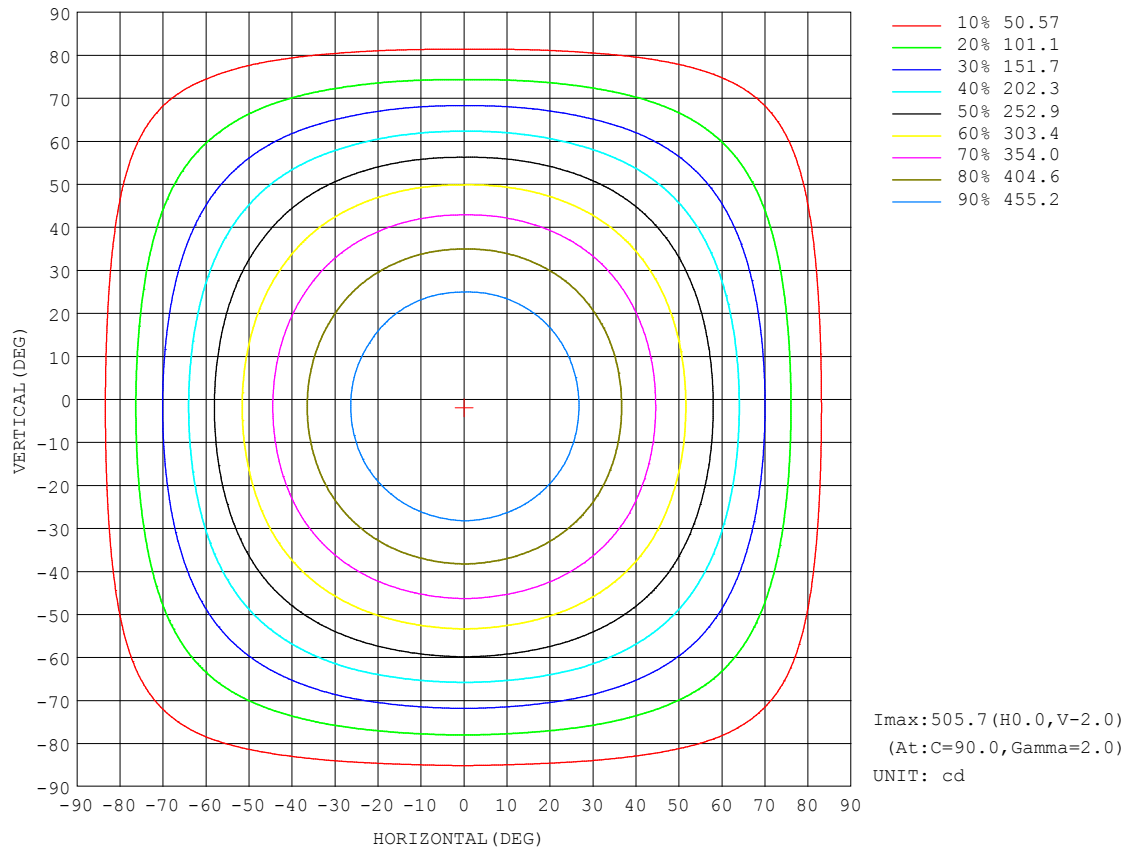
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	54	43	36	53	42	35	52	41	35	28
0.80	64	52	45	63	52	44	60	50	44	36
1.00	72	61	53	71	60	53	68	61	52	44
1.25	79	68	61	78	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	78	72	63
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	103	98	94	97	93	90	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:120.5V I:0.3310A P:32.50W PF:0.8130 Freq:60.00Hz Lamp Flux:1668.84x1 lm		
NAME: DRF19-34DOB-95C-120D-WH 整灯 2700K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:19寸	Shielding Angle:

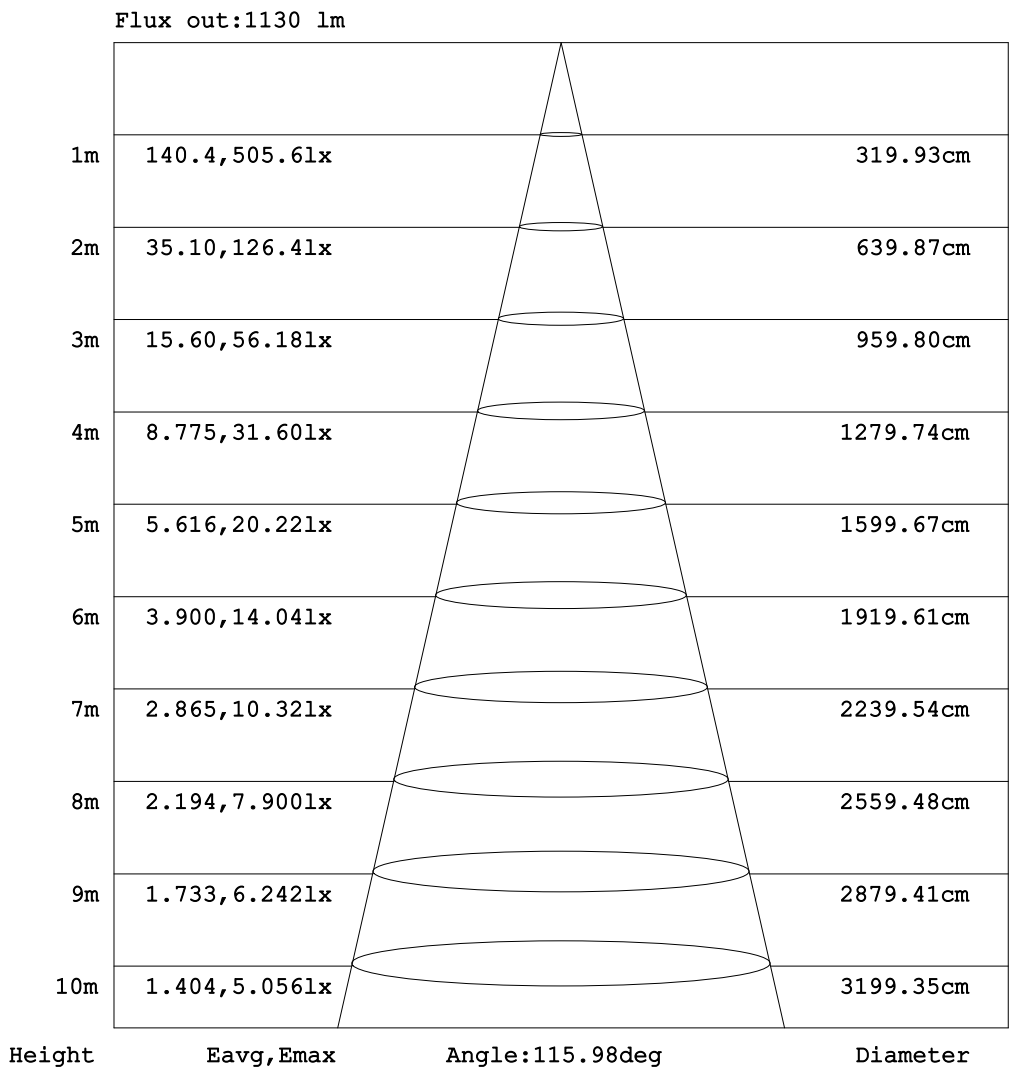


C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-04-10

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:0.3310A P:32.50W PF:0.8130 Freq:60.00Hz Lamp Flux:1668.84x1 lm		
NAME: DRF19-34DOB-95C-120D-WH 整灯 2700K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:19寸	Shielding Angle:

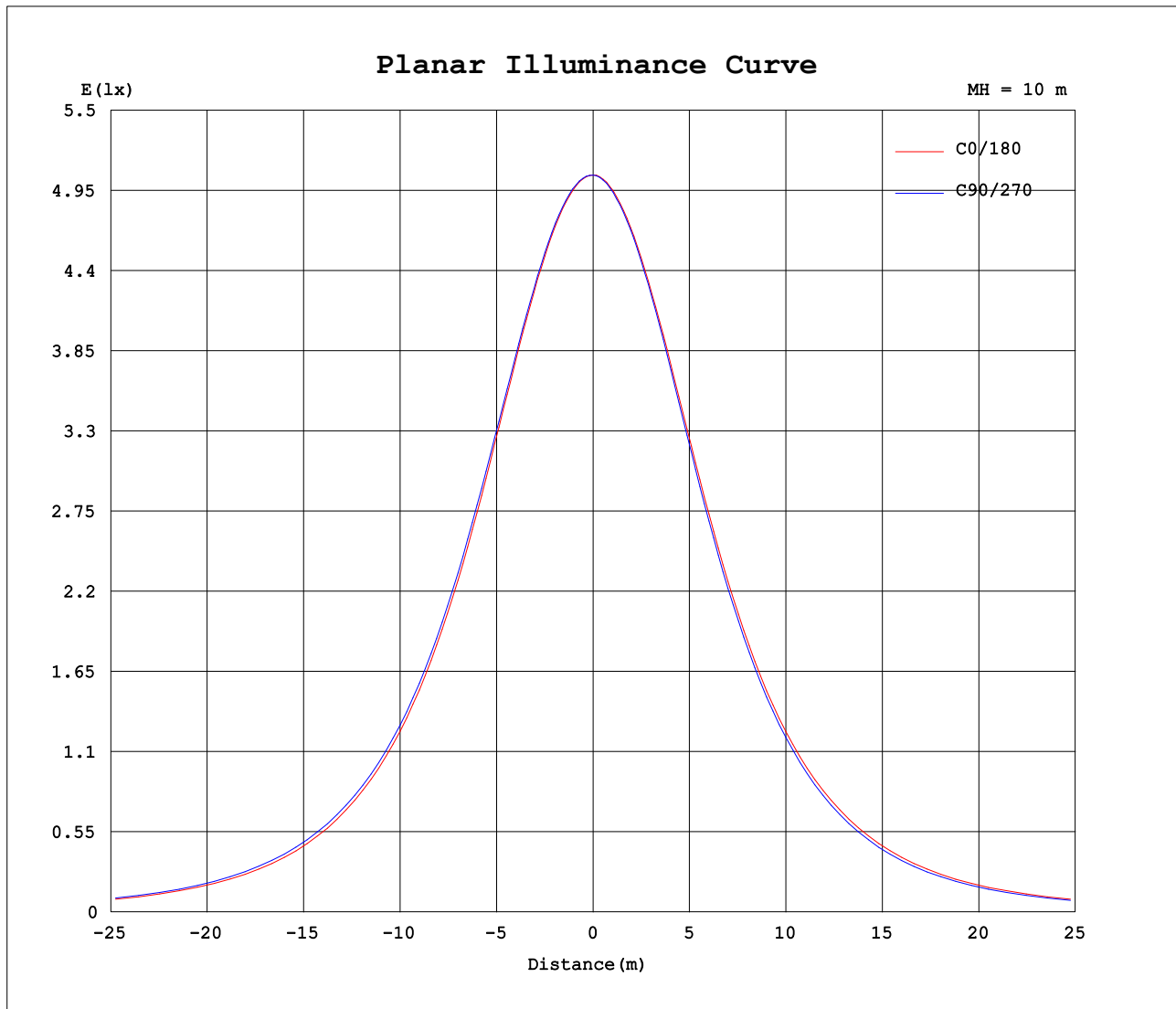


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.3310A P:32.50W PF:0.8130 Freq:60.00Hz Lamp Flux:1668.84x1 lm		
NAME: DRF19-34DOB-95C-120D-WH 整灯 2700K	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	506	505	505	506	505	505	506	505	505	506	505	505							
5	504	504	505	505	504	504	504	503	503	503	503	503							
10	499	500	501	501	500	500	498	497	497	496	497	498							
15	491	492	493	493	492	491	490	488	487	487	488	489							
20	479	481	482	482	481	479	477	474	474	473	475	477							
25	462	465	467	467	466	463	460	457	456	455	457	459							
30	440	444	446	448	445	443	439	434	432	431	434	437							
35	414	419	422	423	421	417	413	407	405	404	406	410							
40	384	390	393	395	392	389	383	377	374	373	376	380							
45	351	358	361	363	361	356	350	343	340	339	342	346							
50	315	323	327	329	326	321	315	307	304	302	306	310							
55	277	285	289	291	288	284	277	269	265	263	266	271							
60	236	245	250	252	249	244	236	228	223	221	224	230							
65	194	202	208	209	208	202	194	186	181	179	182	188							
70	152	159	166	167	166	160	152	144	139	137	140	146							
75	110	118	124	126	124	118	112	102	98.2	95.4	98.9	104							
80	71.4	79.1	83.9	86.2	84.2	79.7	73.2	65.1	61.2	58.9	61.8	66.3							
85	39.9	45.7	49.4	51.8	49.7	46.3	41.3	35.3	32.5	30.9	33.0	36.3							
90	21.0	23.5	25.1	26.3	25.1	23.2	21.4	19.8	19.9	20.2	20.6	21.0							
95	20.2	19.6	18.9	18.5	18.4	18.5	19.8	20.0	20.3	20.6	20.9	21.2							
100	20.8	20.0	19.2	19.1	18.9	18.5	20.3	19.8	20.0	21.2	20.7	21.0							
105	21.3	19.7	18.8	19.6	18.8	18.1	20.7	19.7	19.8	21.5	20.5	20.7							
110	21.3	19.6	18.9	19.9	18.8	18.5	20.9	20.2	20.4	21.7	21.0	21.1							
115	21.2	20.0	19.4	19.9	19.2	19.1	21.2	21.0	21.2	22.0	21.7	21.8							
120	21.7	20.7	20.0	20.3	19.9	19.8	21.8	21.8	22.0	22.6	22.5	22.5							
125	22.1	21.4	20.7	20.8	20.6	20.6	22.4	22.6	22.7	23.1	23.2	23.1							
130	22.7	22.1	21.5	21.4	21.3	21.4	23.0	23.3	23.4	23.7	23.8	23.8							
135	23.2	22.7	22.1	21.9	22.0	21.9	23.5	23.7	24.0	24.0	24.1	24.2							
140	23.4	23.3	22.5	22.2	22.5	22.3	23.7	24.0	24.3	24.1	24.3	24.4							
145	23.6	23.6	22.7	22.5	22.8	22.6	23.9	24.1	24.5	24.3	24.3	24.5							
150	23.8	23.7	23.0	22.8	23.0	22.8	24.1	24.2	24.5	24.4	24.1	24.4							
155	23.8	23.7	23.1	23.1	23.1	22.9	24.3	24.1	24.3	24.4	24.0	24.1							
160	24.0	23.6	23.1	23.4	23.1	22.9	24.4	23.9	24.1	24.4	23.7	23.8							
165	25.0	24.5	24.2	24.4	24.5	24.3	25.4	25.2	25.6	25.6	24.9	25.1							
170	26.3	25.9	25.1	26.1	25.8	25.0	26.3	25.7	26.6	26.6	25.7	26.2							
175	26.9	26.4	26.0	26.9	26.2	25.9	26.9	26.1	26.5	27.0	26.1	26.2							
180	27.3	26.5	26.6	27.4	26.5	26.5	27.3	26.5	26.7	27.4	26.5	26.4							

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: