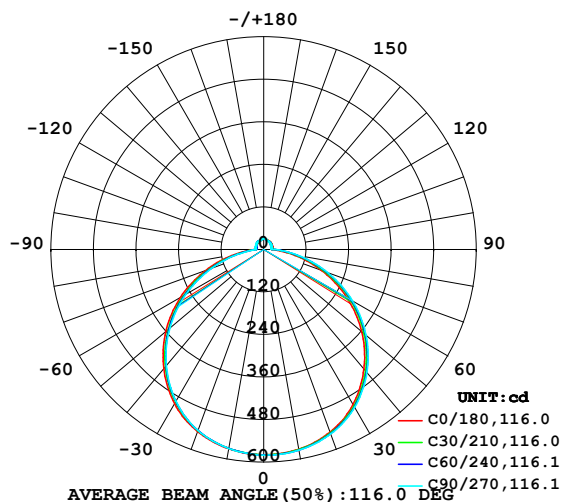


LUMINAIRE PHOTOMETRIC TEST REPORT

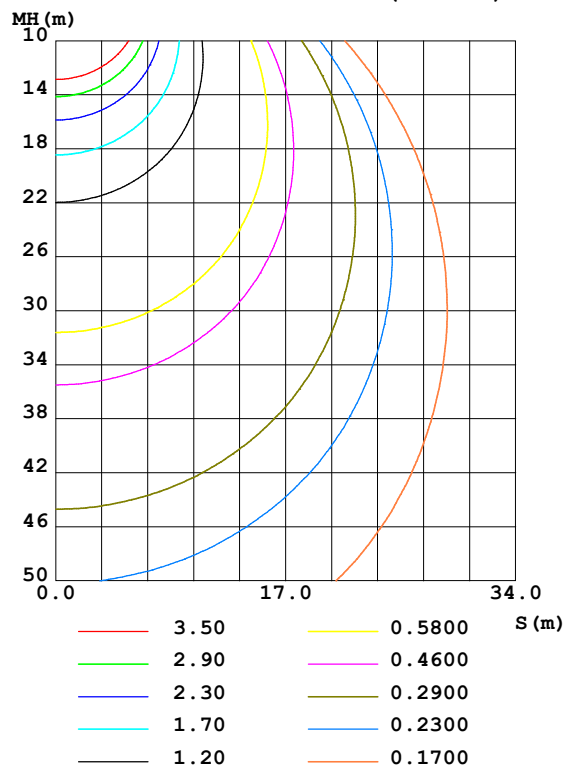
Test:U:120.6V I:0.3320A P:33.40W PF:0.8330 Freq:60.00Hz Lamp Flux:1917.89x1 lm		
NAME: DRF19-34DOB-95C-120D-WH 整灯 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:19寸	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 57.42 lm/W
MODEL		I _{max} (cd)	580.6	S/MH (C0/180)	1.29	
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	1.27	
RATED VOLTAGE (V)		TOTAL FLUX (lm)	1917.9	η UP, DN (C0-180)	4.0, 47.2	
NOMINAL FLUX (lm)	1917.89	CIE CLASS	DIRECT	η UP, DN (C180-360)	4.3, 44.5	
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	571.9	573.8	574.6	573.8	570.8	569.6	569.9	571.5	0- 10	54.98	54.98	2.87,2.87
20	548.5	551.9	553.7	551.3	546.6	543.5	543.2	545.9	10- 20	158.8	213.8	11.1,11.1
30	504.3	511.1	514.2	510.4	502.8	496.5	494.8	499.3	20- 30	243.8	457.6	23.9,23.9
40	440.2	449.3	453.1	448.5	438.8	430.3	427.6	433.2	30- 40	296.7	754.3	39.3,39.3
50	360.9	372.3	377.2	371.8	360.5	350.3	346.2	352.9	40- 50	310.5	1065	55.5,55.5
60	270.7	283.6	289.4	283.3	271.5	259.1	253.8	261.1	50- 60	284.0	1349	70.3,70.3
70	174.2	186.8	192.3	187.1	174.7	161.9	156.7	163.5	60- 70	220.9	1570	81.8,81.8
80	82.14	93.86	99.17	94.41	83.98	72.59	67.60	73.62	70- 80	135.0	1705	88.9,88.9
90	24.59	28.23	30.33	28.05	24.80	23.06	23.46	24.41	80- 90	54.20	1759	91.7,91.7
100	24.56	22.99	22.13	21.81	23.57	23.15	24.65	24.52	90-100	25.53	1784	93,93
110	25.04	22.49	23.08	21.69	24.26	23.64	25.26	24.71	100-110	24.70	1809	94.3,94.3
120	25.48	23.80	23.65	23.14	25.26	25.45	26.32	26.34	110-120	23.95	1833	95.6,95.6
130	26.62	25.45	24.85	24.84	26.61	27.14	27.62	27.84	120-130	22.96	1856	96.8,96.8
140	27.44	26.74	25.89	26.03	27.41	28.04	28.12	28.45	130-140	20.81	1877	97.9,97.9
150	27.75	27.28	26.49	26.63	27.79	28.24	28.40	28.36	140-150	17.26	1894	98.8,98.8
160	27.95	27.24	27.17	26.73	28.24	27.91	28.42	27.73	150-160	12.79	1907	99.4,99.4
170	30.64	29.64	30.28	29.56	30.42	30.28	30.86	30.25	160-170	8.114	1915	99.8,99.8
180	31.74	30.84	31.86	30.83	31.71	30.84	31.86	30.83	170-180	2.916	1918	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 910.33 lm

%lum = 47.5%

%lamp = 47.5%

Conical surface Flux(120deg): 1348.7 lm

%lum = 70.3%

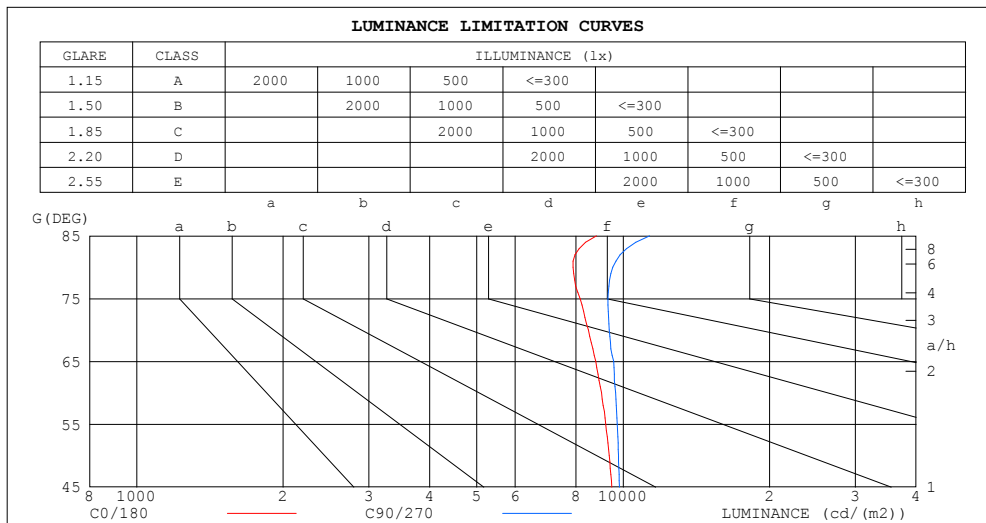
%lamp = 70.3%

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:0.3320A P:33.40W PF:0.8330 Freq:60.00Hz Lamp Flux:1917.89x1 lm		
NAME: DRF19-34DOB-95C-120D-WH 整灯 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:19寸	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	8816	11324
80	7884	9519
75	8159	9302
70	8486	9368
65	8779	9558
60	9022	9647
55	9211	9723
50	9358	9781
45	9479	9828

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:0.3320A P:33.40W PF:0.8330 Freq:60.00Hz Lamp Flux:1917.89x1 lm					
NAME: DRF19-34DOB-95C-120D-WH 整灯 3000K			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	.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	.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	.162	.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	.098	.127	.094	.069	.074	.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	.173	.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:0.3320A P:33.40W PF:0.8330 Freq:60.00Hz Lamp Flux:1917.89x1 lm											
NAME: DRF19-34DOB-95C-120D-WH 整灯 3000K						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	21.2	21.7	19.9	21.2	20.3	21.6	22.0
	4H	20.2	21.5	20.7	21.9	22.3	20.6	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	18.6	19.9	19.1	20.3	20.7	18.8	20.1	19.2	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	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	21.5	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	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	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, 1918 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 2.3$)

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:

UTILIZATION FACTORS TABLE

Test:U:120.6V I:0.3320A P:33.40W PF:0.8330 Freq:60.00Hz Lamp Flux:1917.89x1 lm		
NAME: DRF19-34DOB-95C-120D-WH 整灯 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:19寸	Shielding Angle:

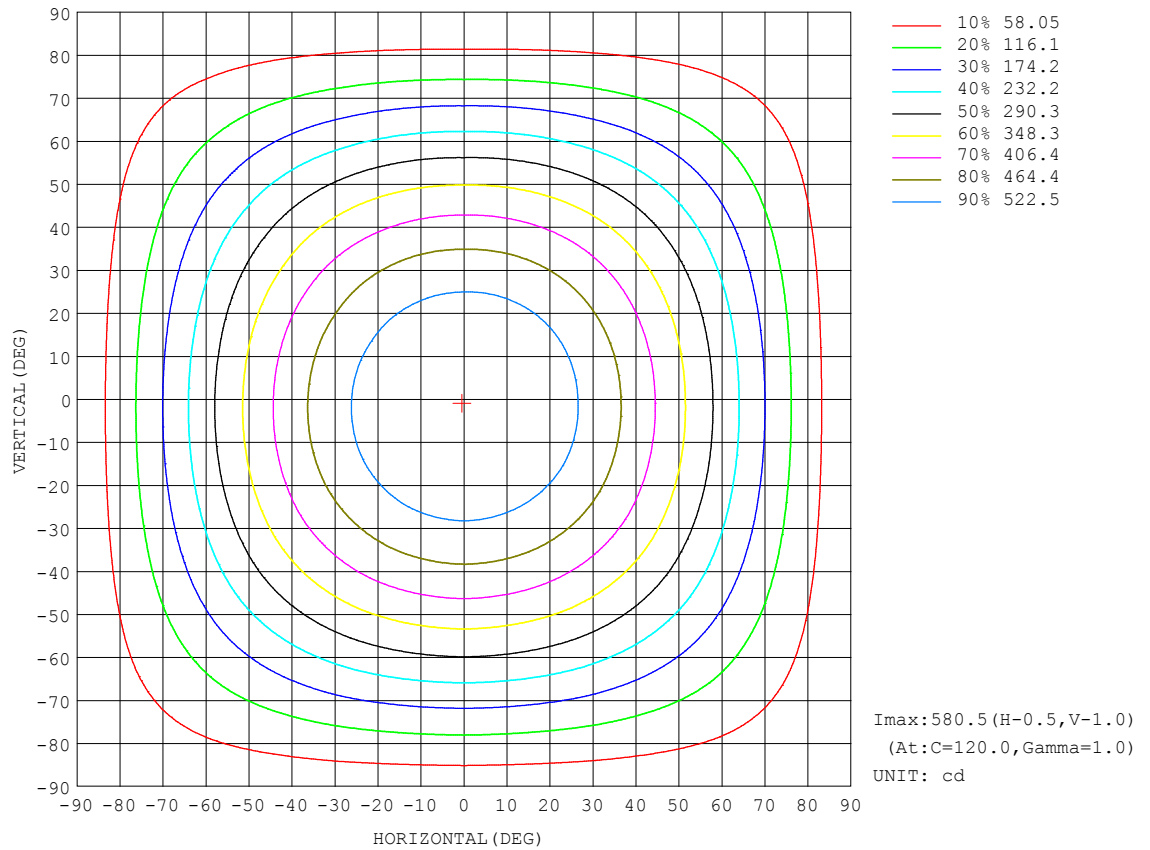
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	54	42	36	53	42	35	52	41	35	28
0.80	64	52	45	63	52	44	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:0.3320A P:33.40W PF:0.8330 Freq:60.00Hz Lamp Flux:1917.89x1 lm		
NAME: DRF19-34DOB-95C-120D-WH 整灯 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:19寸	Shielding Angle:

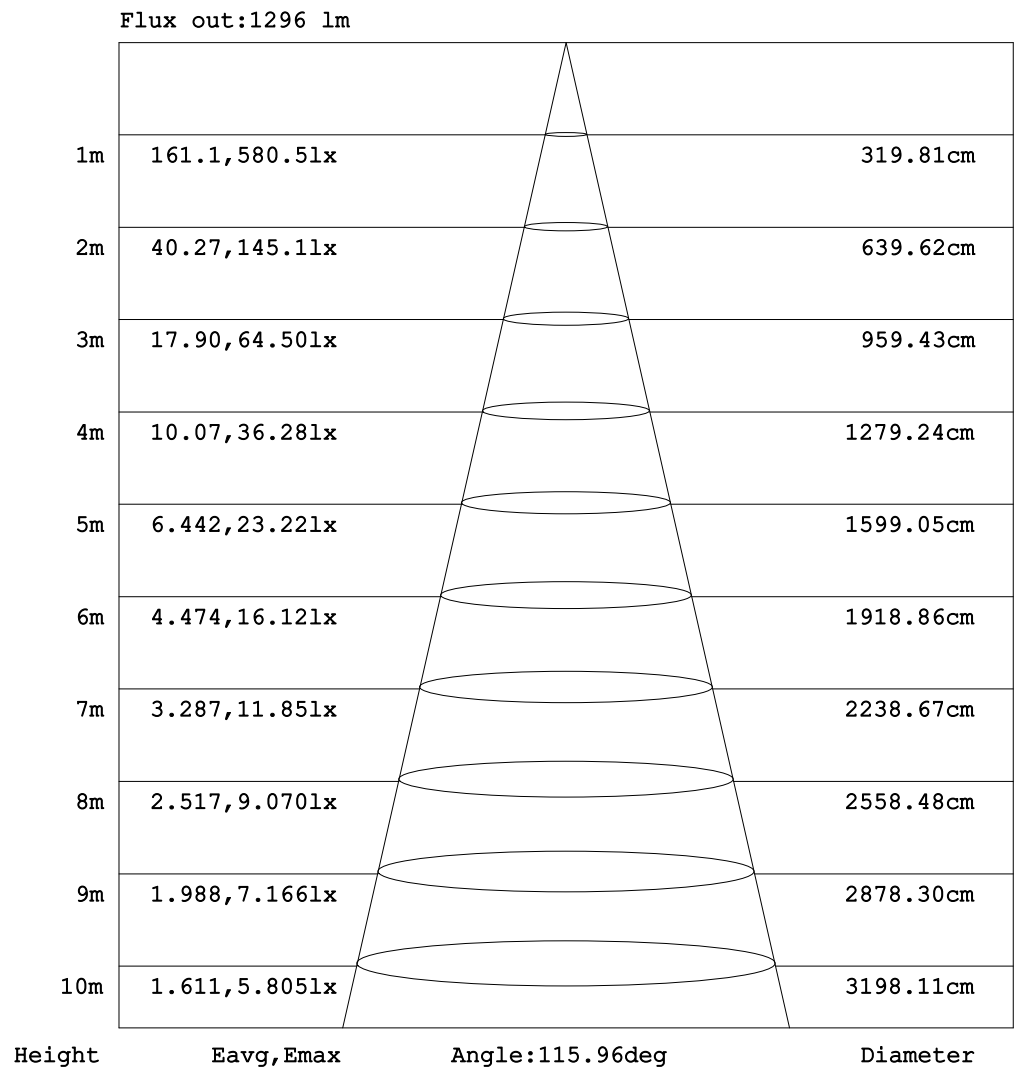


C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-04-10

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:0.3320A P:33.40W PF:0.8330 Freq:60.00Hz Lamp Flux:1917.89x1 lm		
NAME: DRF19-34DOB-95C-120D-WH 整灯 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:19寸	Shielding Angle:

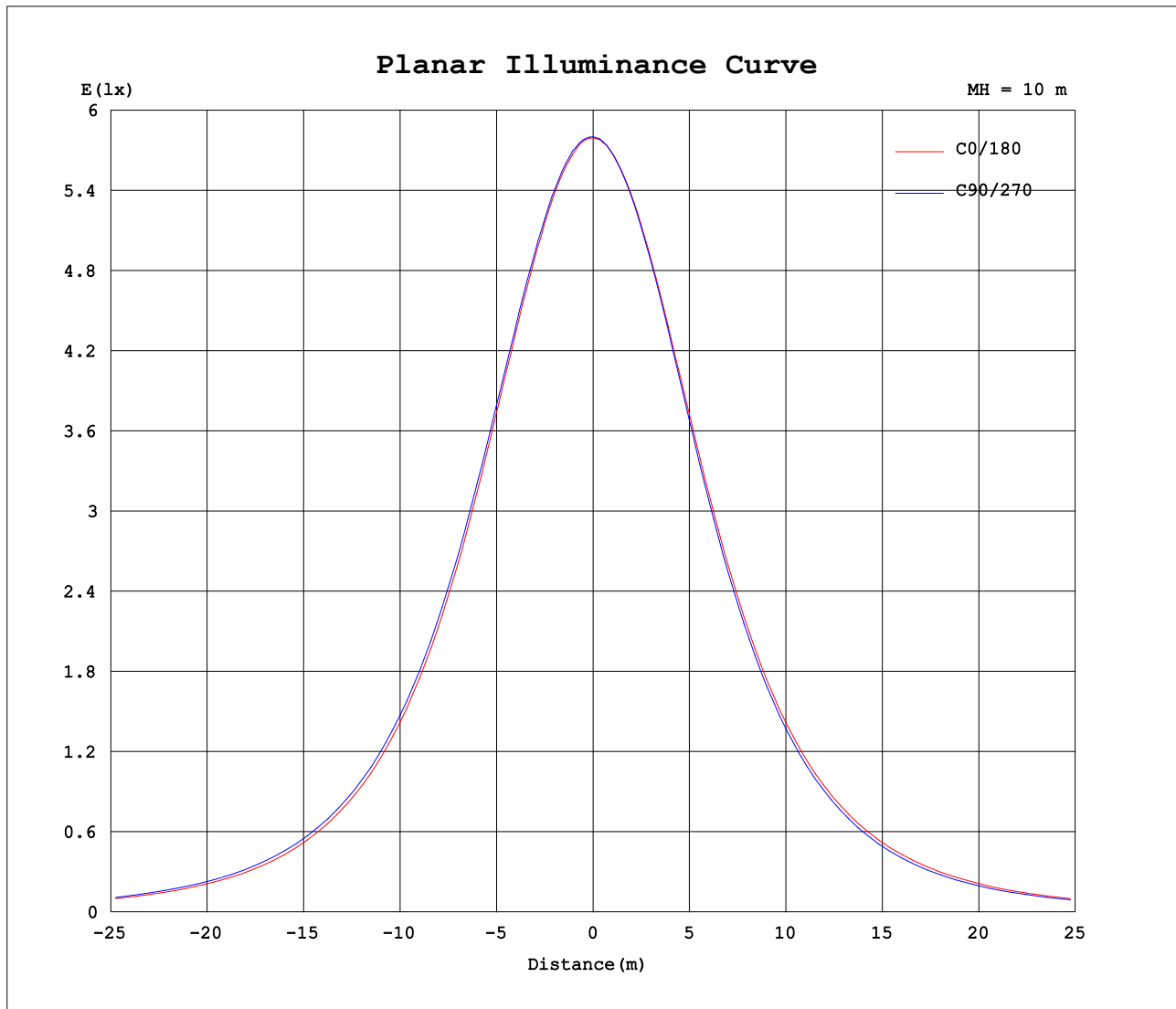


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.3320A P:33.40W PF:0.8330 Freq:60.00Hz Lamp Flux:1917.89x1 lm		
NAME: DRF19-34DOB-95C-120D-WH 整灯 3000K	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	579	579	580	580	580	580	579	579	580	580	580	580							
5	578	578	579	579	579	579	577	576	576	577	578	578							
10	572	573	574	575	574	573	571	570	570	570	571	572							
15	562	564	565	566	566	564	561	559	559	559	560	562							
20	548	551	553	554	552	550	547	544	543	543	545	547							
25	530	533	535	537	535	532	528	523	522	522	524	527							
30	504	510	513	514	512	509	503	497	496	495	498	501							
35	475	480	484	486	484	480	473	467	464	463	467	470							
40	440	447	451	453	451	446	439	432	429	428	431	435							
45	402	410	415	417	414	410	401	394	390	388	393	397							
50	361	370	375	377	374	369	360	352	349	346	350	355							
55	317	327	332	335	332	326	317	308	304	301	305	311							
60	271	281	286	289	286	281	272	261	257	254	259	264							
65	223	232	239	242	239	232	223	213	207	205	209	215							
70	174	183	190	192	191	184	175	165	159	157	160	167							
75	127	136	142	144	143	136	128	118	113	109	114	120							
80	82.1	91.3	96.4	99.2	96.9	91.9	84.0	74.8	70.3	67.6	71.1	76.1							
85	46.1	52.6	56.9	59.2	57.4	53.5	47.5	40.8	37.6	35.7	38.2	41.9							
90	24.6	27.4	29.1	30.3	29.1	27.0	24.8	23.0	23.1	23.5	24.1	24.7							
95	23.8	23.0	22.1	21.4	21.4	21.6	23.0	23.3	23.6	24.0	24.5	25.0							
100	24.6	23.5	22.5	22.1	22.0	21.6	23.6	23.1	23.2	24.7	24.3	24.8							
105	25.1	23.1	22.0	22.8	21.8	21.2	24.1	22.9	23.1	25.1	24.0	24.4							
110	25.0	22.9	22.0	23.1	21.8	21.6	24.3	23.5	23.8	25.3	24.6	24.8							
115	25.0	23.5	22.6	23.2	22.4	22.3	24.6	24.4	24.7	25.7	25.4	25.6							
120	25.5	24.2	23.4	23.6	23.1	23.1	25.3	25.4	25.6	26.3	26.3	26.4							
125	26.0	25.0	24.2	24.2	24.0	24.0	26.0	26.2	26.4	27.0	27.1	27.2							
130	26.6	25.8	25.1	24.8	24.8	24.9	26.6	27.0	27.2	27.6	27.8	27.9							
135	27.1	26.6	25.8	25.4	25.6	25.5	27.1	27.6	27.9	28.0	28.2	28.3							
140	27.4	27.2	26.2	25.9	26.1	25.9	27.4	27.9	28.2	28.1	28.4	28.5							
145	27.6	27.6	26.6	26.2	26.5	26.2	27.6	28.0	28.4	28.3	28.3	28.6							
150	27.8	27.7	26.8	26.5	26.8	26.5	27.8	28.0	28.5	28.4	28.2	28.6							
155	27.8	27.7	26.9	26.9	26.8	26.6	28.1	27.9	28.3	28.4	27.9	28.2							
160	27.9	27.5	26.9	27.2	26.8	26.6	28.2	27.7	28.1	28.4	27.6	27.8							
165	29.1	28.6	28.1	28.4	28.4	28.2	29.3	29.2	29.7	29.7	29.0	29.3							
170	30.6	30.1	29.2	30.3	30.0	29.1	30.4	29.7	30.8	30.9	29.9	30.6							
175	31.4	30.7	30.3	31.3	30.5	30.1	31.1	30.3	30.7	31.4	30.3	30.6							
180	31.7	30.8	30.9	31.9	30.8	30.9	31.7	30.8	30.9	31.9	30.8	30.8							

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: