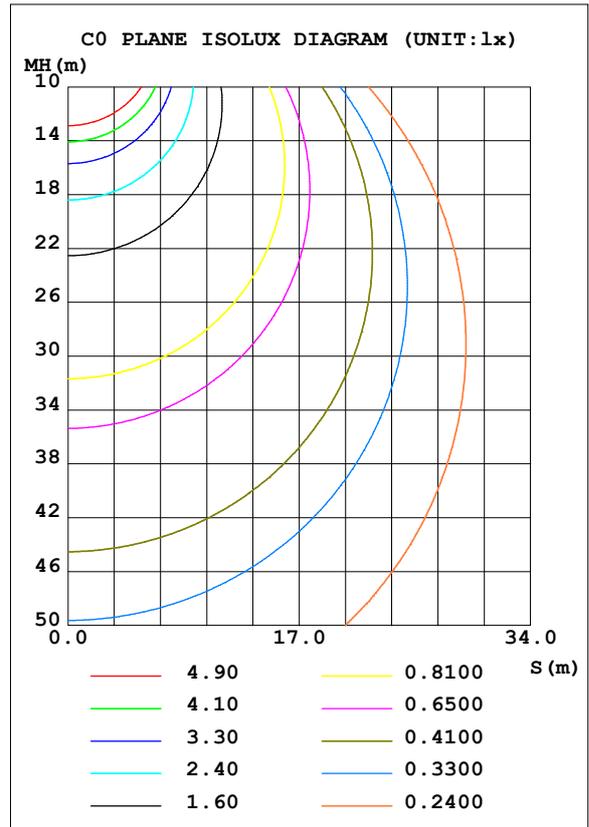
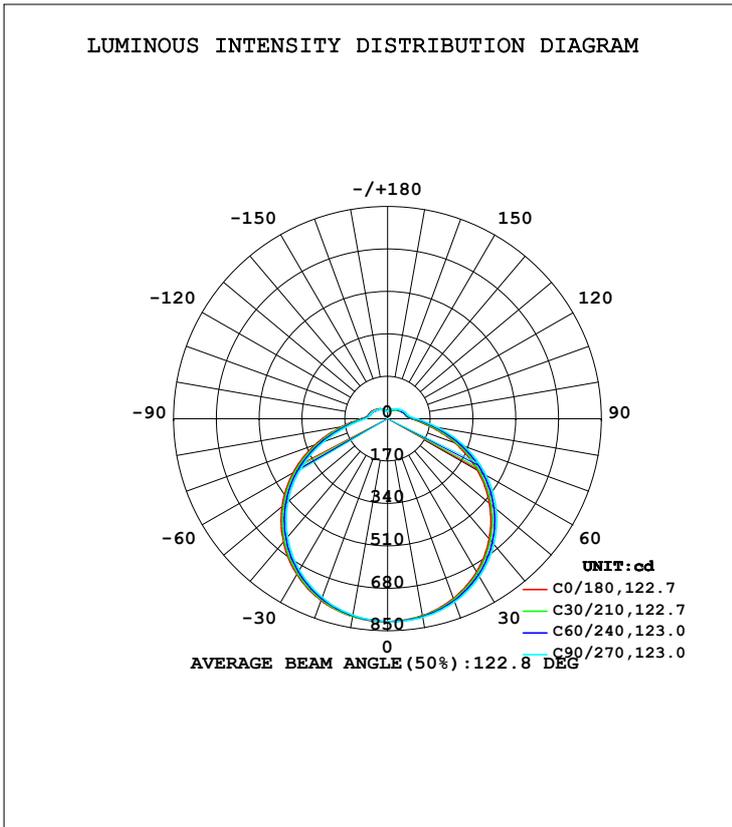


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.6V I:0.2770A P:33.10W PF:0.9900 Freq:60.00Hz Lamp Flux:3101.9x1 lm		
NAME: DMS19-34W-95C-MVUD 整灯 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:19寸	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 93.71 lm/W			
MODEL		I _{max} (cd)	814.6	S/MH (C0/180)	1.32
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	1.28
RATED VOLTAGE (V)		TOTAL FLUX (lm)	3101.9	η UP, DN (C0-180)	6.4, 44.8
NOMINAL FLUX (lm)	3101.9	CIE CLASS	SEMI-D.	η UP, DN (C180-360)	6.2, 42.5
LAMPS INSIDE	1	η up (%)	12.6	CIBSE SHR NOM	1.50
TEST VOLTAGE (V)		η down (%)	87.4	CIBSE SHR MAX	1.50



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2024-04-08

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	800.6	803.7	807.5	808.6	804.7	802.1	798.6	798.2	0- 10	77.15	77.15	2.49,2.49
20	766.3	772.8	780.7	782.1	774.4	768.8	761.4	760.0	10- 20	223.1	300.3	9.68,9.68
30	708.5	718.3	730.1	731.8	720.3	712.2	701.2	698.9	20- 30	344.0	644.3	20.8,20.8
40	628.6	641.5	657.0	658.6	643.8	633.3	618.9	615.9	30- 40	424.9	1069	34.5,34.5
50	528.8	544.5	563.2	564.7	547.3	534.2	516.8	514.0	40- 50	455.7	1525	49.2,49.2
60	412.7	430.3	451.4	453.1	433.2	417.8	398.3	395.7	50- 60	432.2	1957	63.1,63.1
70	285.8	304.1	326.4	328.4	307.0	289.9	269.6	267.9	60- 70	357.8	2315	74.6,74.6
80	167.6	182.1	201.0	202.9	183.9	169.8	154.4	153.1	70- 80	248.2	2563	82.6,82.6
90	95.32	103.1	113.6	114.8	105.1	97.05	89.98	89.63	80- 90	146.4	2710	87.4,87.4
100	74.51	77.60	81.74	81.69	79.20	76.00	73.91	73.63	90-100	93.88	2803	90.4,90.4
110	69.05	70.14	74.81	72.89	73.19	69.00	69.04	67.18	100-110	78.12	2882	92.9,92.9
120	61.46	61.70	66.87	64.07	65.82	61.63	62.28	59.94	110-120	66.07	2948	95,95
130	53.49	55.22	58.03	57.17	57.82	55.79	54.69	54.17	120-130	53.05	3001	96.7,96.7
140	47.58	49.10	51.64	50.80	51.71	50.05	48.78	48.44	130-140	40.92	3042	98.1,98.1
150	41.07	42.56	44.56	43.77	44.93	43.73	42.21	42.01	140-150	29.26	3071	99,99
160	34.60	35.86	37.67	36.43	38.17	36.80	35.67	35.07	150-160	18.45	3089	99.6,99.6
170	31.36	31.68	32.97	31.97	32.95	32.34	31.64	30.82	160-170	9.597	3099	99.9,99.9
180	31.89	31.10	32.05	31.03	31.91	31.10	32.03	31.03	170-180	2.997	3102	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 1296.6 lm

%lum = 41.8%

%lamp = 41.8%

Conical surface Flux(120deg): 1957.1 lm

%lum = 63.1%

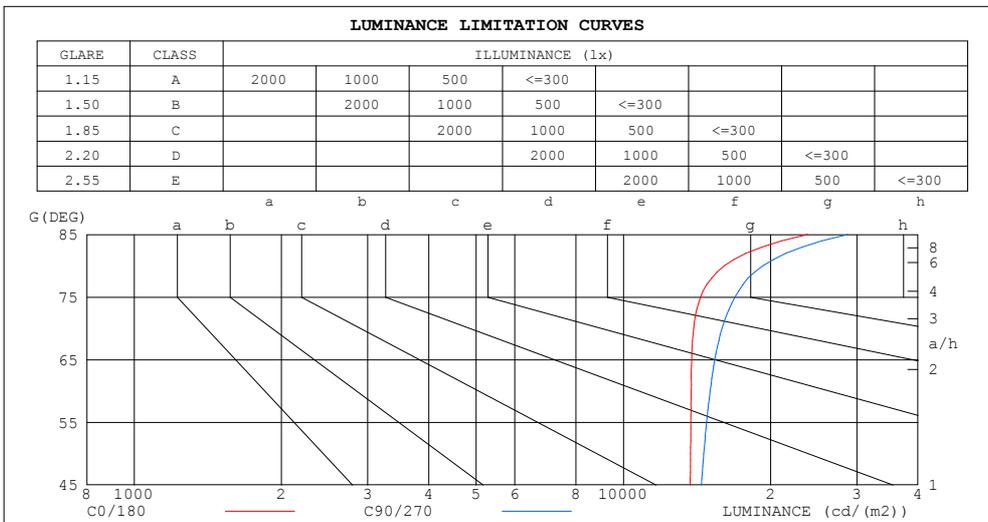
%lamp = 63.1%

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2024-04-08

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:0.2770A P:33.10W PF:0.9900 Freq:60.00Hz Lamp Flux:3101.9x1 lm		
NAME: DMS19-34W-95C-MVUD 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	23814	28766
80	16091	19296
75	14371	16907
70	13925	15907
65	13798	15375
60	13756	15048
55	13734	14800
50	13710	14604
45	13693	14437

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2024-04-08

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:0.2770A P:33.10W PF:0.9900 Freq:60.00Hz Lamp Flux:3101.9x1 lm		
NAME: DMS19-34W-95C-MVUD 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	.348	.198	.063	.337	.192	.061	.316	.181	.058	.297	.171	.055	.280	.162	.052	
2.0	.312	.171	.052	.302	.166	.051	.284	.158	.049	.267	.150	.047	.251	.142	.045	
3.0	.283	.150	.045	.274	.147	.044	.257	.139	.042	.241	.132	.041	.227	.126	.039	
4.0	.257	.134	.039	.249	.130	.039	.234	.124	.037	.220	.118	.036	.207	.113	.034	
5.0	.236	.120	.035	.229	.117	.034	.215	.112	.033	.202	.107	.032	.190	.102	.031	
6.0	.217	.109	.031	.211	.106	.031	.198	.102	.030	.187	.097	.029	.176	.093	.028	
7.0	.201	.100	.028	.195	.097	.028	.184	.093	.027	.173	.089	.026	.164	.085	.025	
8.0	.187	.092	.026	.182	.090	.025	.172	.086	.024	.162	.082	.024	.153	.078	.023	
9.0	.175	.085	.024	.170	.083	.023	.161	.079	.023	.152	.076	.022	.143	.073	.021	
10.0	.164	.079	.022	.160	.077	.021	.151	.074	.021	.143	.071	.020	.135	.068	.019	

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	.287	.287	.287	.245	.245	.245	.167	.167	.167	.096	.096	.096	.031	.031	.031	
1.0	.280	.253	.229	.240	.217	.197	.164	.149	.136	.094	.086	.079	.030	.028	.026	
2.0	.273	.230	.193	.234	.198	.167	.160	.137	.117	.092	.080	.068	.030	.026	.022	
3.0	.265	.213	.171	.227	.184	.148	.156	.127	.104	.090	.074	.061	.029	.024	.020	
4.0	.258	.200	.156	.221	.173	.135	.152	.120	.095	.088	.071	.056	.028	.023	.019	
5.0	.250	.190	.145	.215	.164	.127	.148	.115	.089	.086	.067	.053	.028	.022	.017	
6.0	.243	.182	.138	.209	.157	.120	.144	.110	.085	.084	.065	.051	.027	.021	.017	
7.0	.236	.175	.133	.203	.152	.115	.140	.106	.082	.081	.063	.049	.026	.021	.016	
8.0	.229	.170	.128	.198	.147	.112	.137	.103	.079	.080	.061	.047	.026	.020	.016	
9.0	.223	.165	.125	.192	.143	.109	.133	.100	.077	.078	.059	.046	.025	.019	.015	
10.0	.218	.161	.123	.188	.139	.107	.130	.098	.076	.076	.058	.045	.025	.019	.015	

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2024-04-08

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:0.2770A P:33.10W PF:0.9900 Freq:60.00Hz Lamp Flux:3101.9x1 lm										
NAME: DMS19-34W-95C-MVUD 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	17.3	18.7	17.8	19.2	19.6	17.7	19.1	18.1	19.5	20.0
3H	19.1	20.4	19.6	20.9	21.4	19.6	20.9	20.1	21.4	21.9
4H	19.9	21.2	20.4	21.6	22.2	20.5	21.8	21.0	22.2	22.8
6H	20.7	21.9	21.2	22.4	22.9	21.4	22.6	21.9	23.1	23.6
8H	21.1	22.2	21.6	22.7	23.3	21.9	23.0	22.4	23.5	24.1
12H	21.5	22.6	22.1	23.1	23.7	22.4	23.4	22.9	24.0	24.5
4H 2H	18.0	19.3	18.5	19.7	20.3	18.3	19.5	18.8	20.0	20.5
3H	20.0	21.1	20.5	21.6	22.2	20.4	21.5	21.0	22.0	22.6
4H	21.0	22.0	21.5	22.5	23.1	21.5	22.5	22.1	23.0	23.6
6H	21.9	22.8	22.5	23.4	24.0	22.6	23.4	23.1	24.0	24.6
8H	22.4	23.2	23.0	23.8	24.4	23.1	23.9	23.7	24.5	25.2
12H	22.9	23.7	23.5	24.3	24.9	23.7	24.5	24.3	25.1	25.7
8H 4H	21.4	22.2	22.0	22.8	23.4	21.8	22.7	22.4	23.2	23.9
6H	22.6	23.2	23.2	23.9	24.5	23.1	23.8	23.8	24.4	25.1
8H	23.2	23.8	23.8	24.4	25.1	23.8	24.4	24.5	25.1	25.8
12H	23.9	24.4	24.6	25.1	25.8	24.6	25.2	25.3	25.8	26.6
12H 4H	21.5	22.2	22.1	22.8	23.5	21.9	22.6	22.5	23.2	23.9
6H	22.7	23.3	23.4	24.0	24.7	23.3	23.9	23.9	24.5	25.2
8H	23.4	24.0	24.1	24.6	25.4	24.0	24.6	24.7	25.2	26.0
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.4					+ 0.2 / - 0.3				

CIE Pub.117, 3102 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 3.9)

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2024-04-08

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:0.2770A P:33.10W PF:0.9900 Freq:60.00Hz Lamp Flux:3101.9x1 lm		
NAME: DMS19-34W-95C-MVUD 整灯 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:19寸	Shielding Angle:

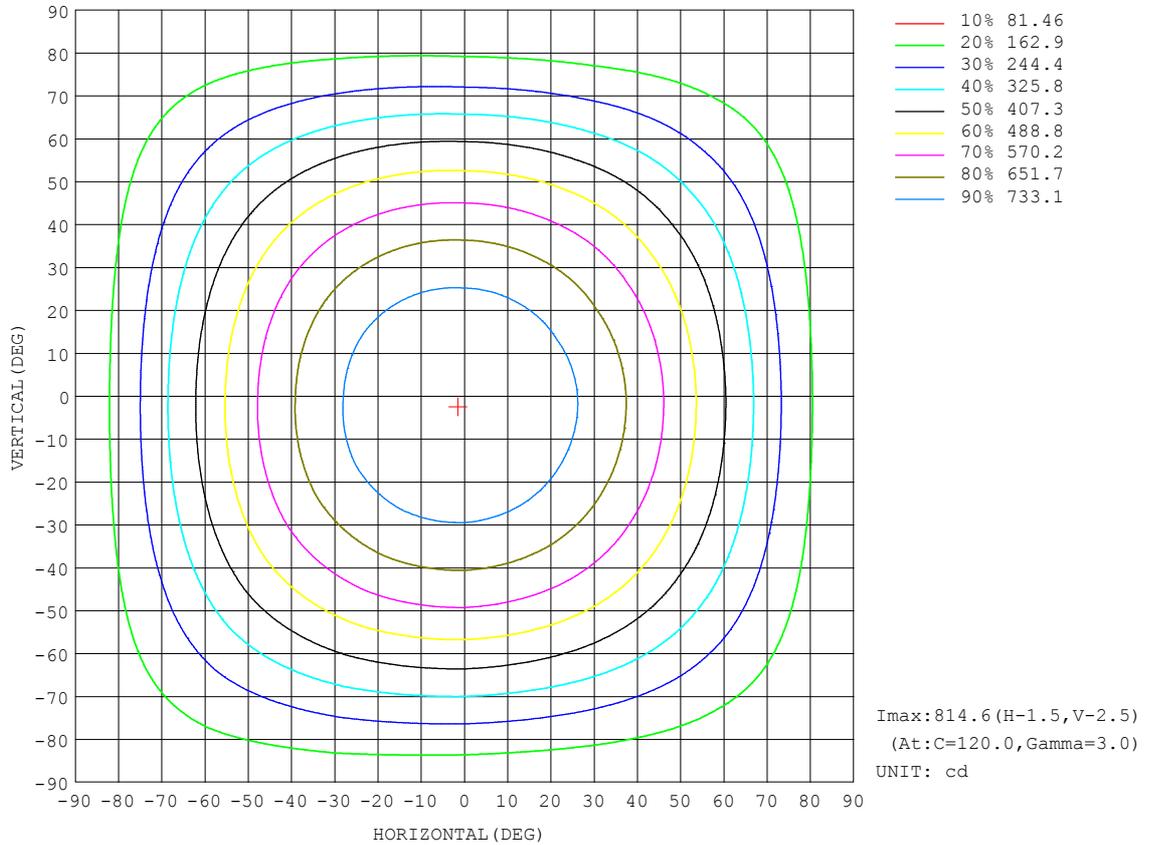
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	51	39	32	50	39	32	48	38	31	25
0.80	61	48	41	59	48	40	57	46	40	32
1.00	69	57	49	67	56	48	64	56	47	39
1.25	76	64	56	74	63	56	70	61	54	45
1.50	81	70	62	79	68	61	74	66	59	50
2.00	88	78	71	85	76	69	80	73	67	56
2.50	92	83	76	89	81	75	84	77	72	60
3.00	96	88	81	93	85	79	87	81	76	64
4.00	100	94	88	97	91	86	91	86	81	69
5.00	103	97	92	100	94	90	93	89	85	72
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:2024-04-08

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:0.2770A P:33.10W PF:0.9900 Freq:60.00Hz Lamp Flux:3101.9x1 lm		
NAME: DMS19-34W-95C-MVUD 整灯 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:19寸	Shielding Angle:

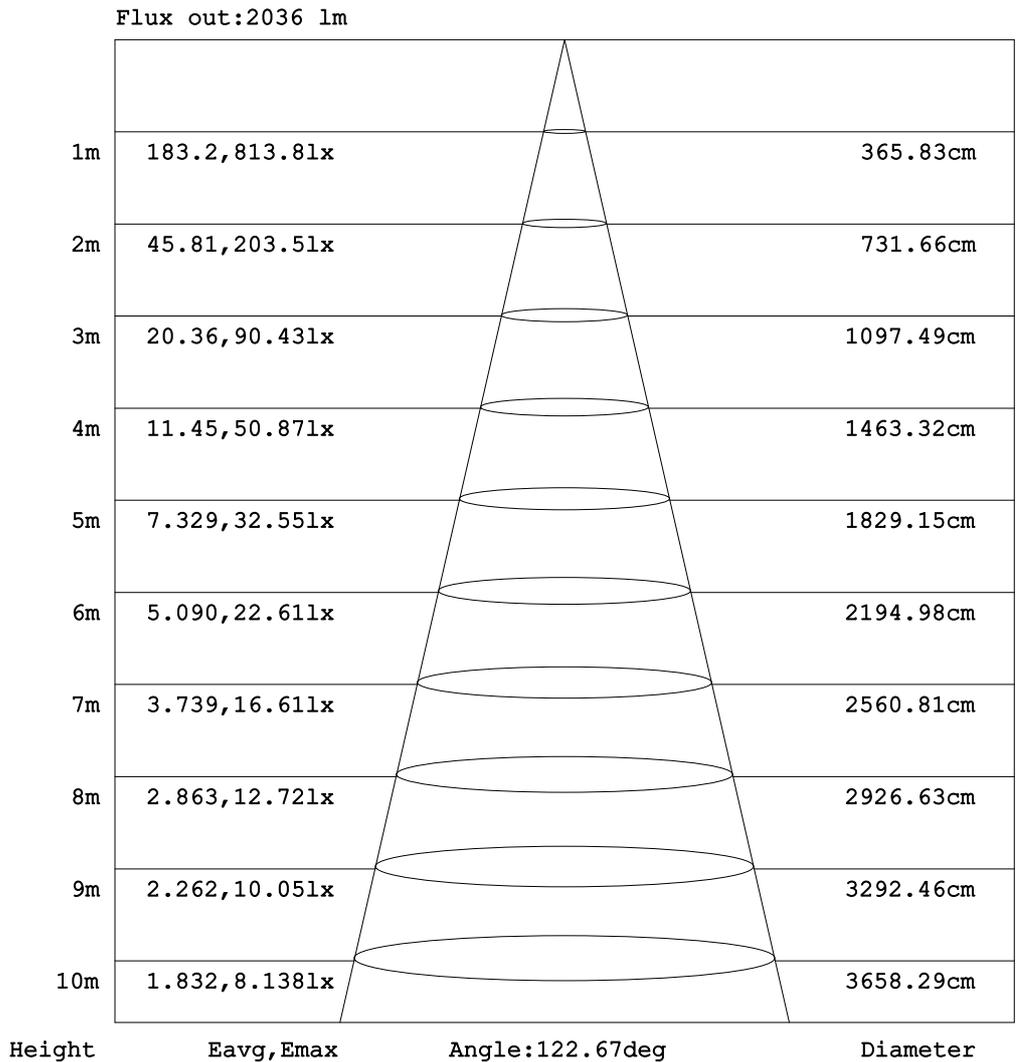


C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2024-04-08

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:0.2770A P:33.10W PF:0.9900 Freq:60.00Hz Lamp Flux:3101.9x1 lm		
NAME: DMS19-34W-95C-MVUD 整灯 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:19寸	Shielding Angle:

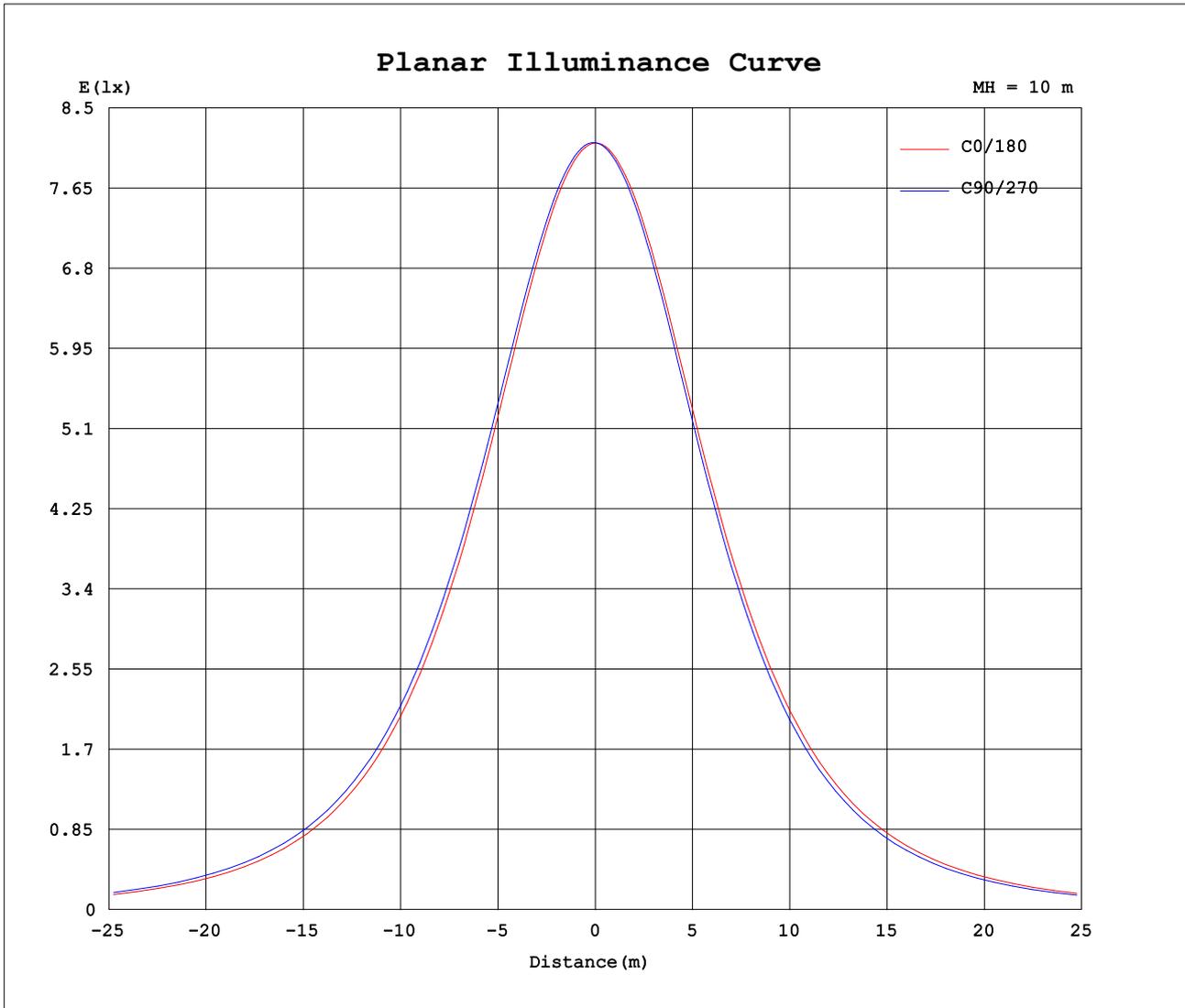


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2024-04-08

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:2024-04-08

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:0.2770A P:33.10W PF:0.9900 Freq:60.00Hz Lamp Flux:3101.9x1 lm		
NAME: DMS19-34W-95C-MVUD 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	813	813	813	813	814	813	813	813	813	813	814	813							
5	809	810	811	813	814	813	811	811	809	809	808	809							
10	801	803	805	807	809	808	805	803	801	799	798	798							
15	786	789	793	797	799	798	793	790	786	783	782	782							
20	766	770	775	781	783	781	774	771	766	761	760	760							
25	740	745	752	758	761	759	750	747	740	734	732	733							
30	708	714	723	730	733	731	720	716	708	701	698	700							
35	671	677	687	696	700	696	685	680	671	663	659	661							
40	629	636	647	657	660	657	644	638	628	619	615	617							
45	581	589	602	613	616	612	598	591	581	570	566	568							
50	529	538	551	563	567	563	547	540	529	517	513	515							
55	473	482	497	509	513	509	492	484	472	459	455	458							
60	413	422	438	451	456	451	433	424	412	398	394	397							
65	350	360	376	390	395	389	371	361	348	334	331	334							
70	286	296	313	326	331	326	307	296	283	270	266	270							
75	223	232	249	263	267	262	244	233	219	208	203	208							
80	168	175	189	201	206	200	184	176	164	154	151	156							
85	125	130	141	150	155	150	137	131	122	114	112	115							
90	95.3	99.7	106	114	116	114	105	99.4	94.7	90.0	88.4	90.9							
95	80.4	83.3	87.1	91.9	93.5	91.4	87.0	83.2	80.8	78.1	76.8	78.8							
100	74.5	76.5	78.7	81.7	82.5	80.9	79.2	76.5	75.5	73.9	72.8	74.4							
105	71.8	73.4	74.7	77.8	78.0	76.2	76.0	73.0	72.3	71.5	70.0	71.4							
110	69.1	69.8	70.5	74.8	74.0	71.8	73.2	69.3	68.7	69.0	66.5	67.8							
115	65.6	65.5	66.1	71.2	69.5	67.3	69.6	65.5	65.0	65.9	62.9	64.0							
120	61.5	61.3	62.1	66.9	65.1	63.1	65.8	61.9	61.3	62.3	59.3	60.5							
125	57.2	57.6	58.9	62.4	61.2	59.6	61.8	58.9	58.2	58.4	56.3	57.6							
130	53.5	54.5	56.0	58.0	58.0	56.4	57.8	56.3	55.3	54.7	53.6	54.7							
135	50.6	51.4	52.9	54.9	54.7	53.3	54.8	53.5	52.4	51.8	50.9	51.8							
140	47.6	48.3	49.9	51.6	51.5	50.1	51.7	50.7	49.4	48.8	48.0	48.8							
145	44.3	45.1	46.7	48.2	48.1	46.7	48.4	47.7	46.3	45.5	45.0	45.6							
150	41.1	41.7	43.5	44.6	44.4	43.1	44.9	44.5	43.0	42.2	41.7	42.3							
155	37.8	38.3	40.1	41.0	40.7	39.5	41.6	41.1	39.6	38.9	38.3	39.0							
160	34.6	35.0	36.8	37.7	37.0	35.9	38.2	37.5	36.1	35.7	34.7	35.5							
165	32.2	32.8	33.9	34.8	34.1	33.1	35.0	34.4	33.7	33.1	31.6	32.6							
170	31.4	31.6	31.8	33.0	32.5	31.4	32.9	32.4	32.3	31.6	30.3	31.4							
175	31.1	30.8	31.0	32.0	31.4	30.9	31.9	31.0	30.9	31.4	30.2	30.7							
180	31.9	31.0	31.2	32.1	31.0	31.1	31.9	31.0	31.2	32.0	30.9	31.1							

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2024-04-08

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: