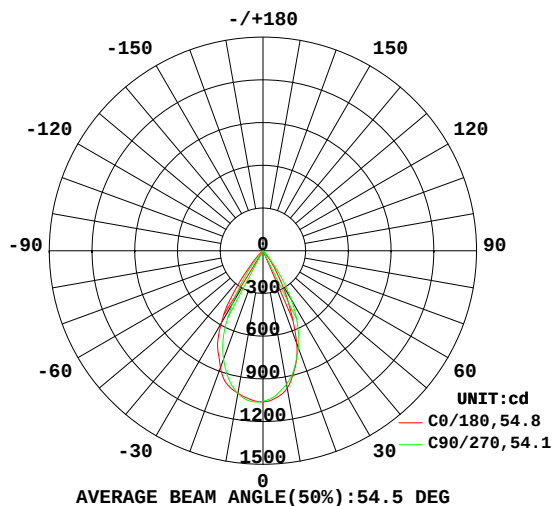


LUMINAIRE PHOTOMETRIC TEST REPORT

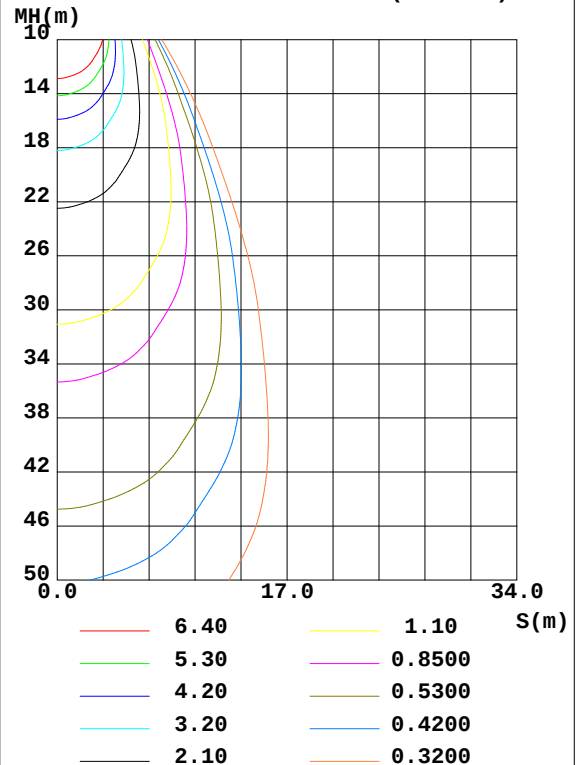
Test:U:220.66V I:0.0472A P:9.5291W PF:0.9144 Freq:50.01Hz Lamp Flux:802.971x1 lm		
NAME: DL9415-WHTC10C03	TYPE:	WEIGHT:
SPEC.: white RA80 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 85mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 84.27 lm/W			
MODEL	2835 16 5700K	I _{max} (cd)	1067	S/MH(C0/180)	0.93
NOMINAL POWER(W)	9	LOR(%)	100.0	S/MH(C90/270)	0.83
RATED VOLTAGE(V)	220-240	TOTAL FLUX(lm)	802.97	η UP, DN(C0-180)	0.0, 47.5
NOMINAL FLUX(lm)	802.971	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0, 52.5
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	220	η down(%)	100.0	CIBSE SHR MAX	0.85

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25DEG
Operators:
Test Date: 2024-01-24

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity: 65.0%
Test Distance: 7.450m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

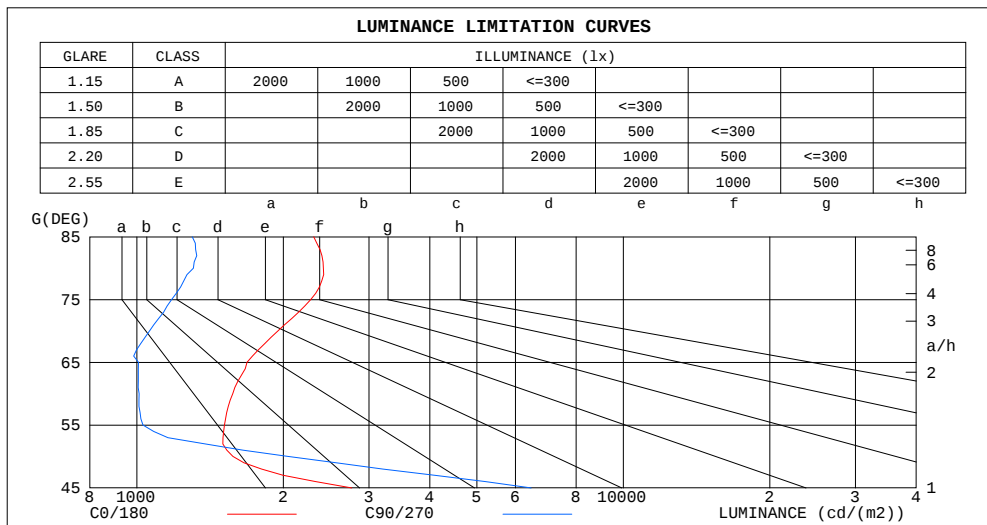
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	980.5	952.2	951.7	987.9	1016	1042	1018	988.3	0- 10	97.77	97.77	12.2, 12.2
20	694.9	678.8	727.2	843.3	875.3	878.9	810.8	742.5	10- 20	252.4	350.2	43.6, 43.6
30	257.2	299.2	400.0	511.6	582.4	569.8	429.1	314.5	20- 30	277.5	627.7	78.2, 78.2
40	33.57	43.18	73.07	118.6	146.7	113.9	63.06	38.81	30- 40	141.3	769.0	95.8, 95.8
50	5.742	5.784	7.454	13.16	16.81	9.155	5.392	5.485	40- 50	24.69	793.7	98.8, 98.8
60	4.463	3.927	2.865	2.093	1.890	2.164	2.952	3.987	50- 60	3.942	797.6	99.3, 99.3
70	3.780	3.185	2.058	1.282	1.046	1.331	2.177	3.257	60- 70	2.580	800.2	99.7, 99.7
80	2.381	2.002	1.286	0.7612	0.5940	0.8022	1.361	2.098	70- 80	2.014	802.2	99.9, 99.9
90	0.0154	0.0116	0	0	0	0	0	0	80- 90	0.7450	803.0	100, 100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2024-01-24

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-2000B_V1 SYSTEM V2.00.428
 Humidity: 65.0%
 Test Distance: 7.450m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:220.66V I:0.0472A P:9.5291W PF:0.9144 Freq:50.01Hz Lamp Flux:802.971x1 lm		
NAME: DL9415-WHTC10C03	TYPE:	WEIGHT:
SPEC.: white RA80 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 85mm	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	2311	1300
80	2418	1307
75	2276	1179
70	1949	1061
65	1684	1007
60	1574	1011
55	1514	1029
50	1575	2045
45	2764	6463

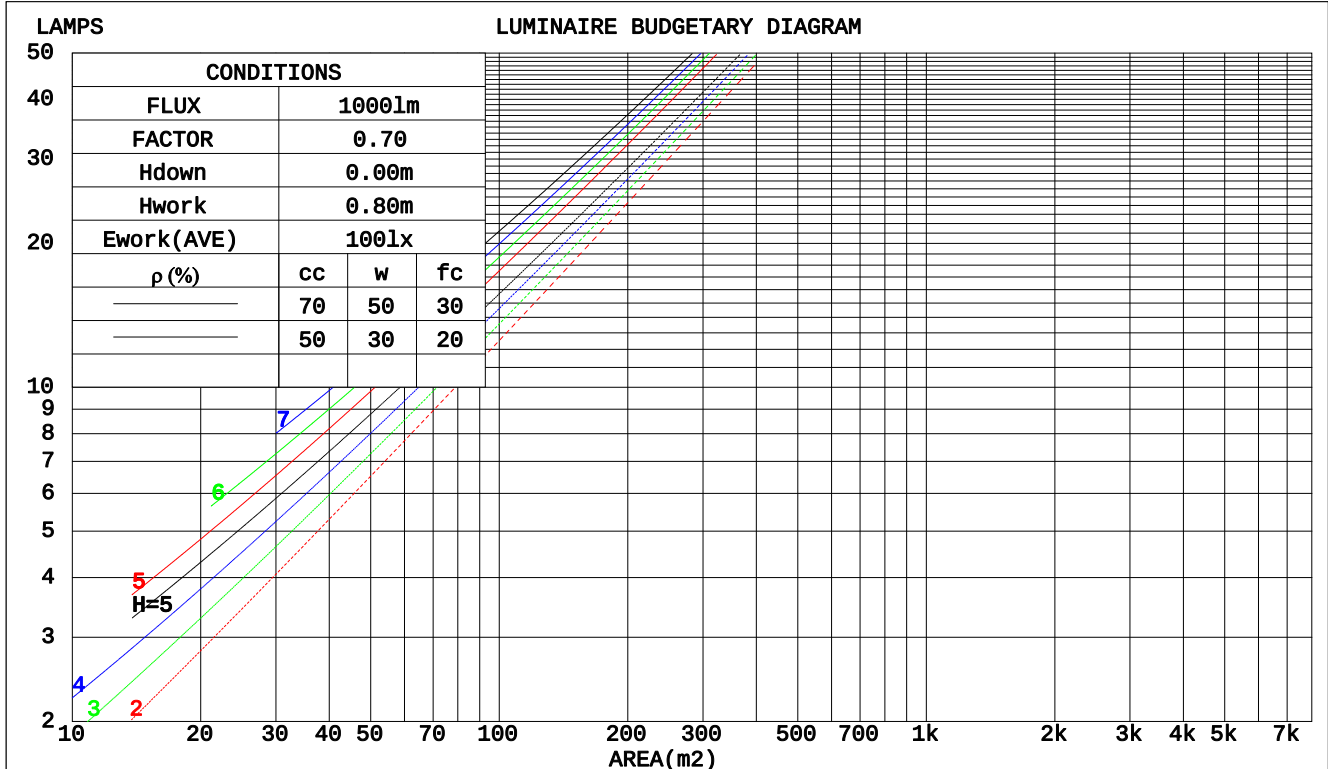
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25DEG
Operators:
Test Date: 2024-01-24

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity: 65.0%
Test Distance: 7.450m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.66V I:0.0472A P:9.5291W PF:0.9144 Freq:50.01Hz Lamp Flux:802.971x1 lm		
NAME: DL9415-WHTC10C03	TYPE:	WEIGHT:
SPEC.: white RA80 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 85mm	Shielding Angle:

ρ_{CC}	80%			70%			50%			30%			10%			0
ρ_W	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	Coefficients of Utilization(CU)															
RCR:Room Cavity Ratio																
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.00
1.0	1.11	1.09	1.07	1.09	1.07	1.05	1.05	1.03	1.02	1.01	.99	.99	.98	.97	.96	.94
2.0	1.04	.99	.97	1.02	.99	.96	.99	.96	.94	.96	.94	.92	.93	.91	.90	.88
3.0	.97	.93	.89	.96	.92	.88	.93	.90	.87	.91	.88	.85	.89	.86	.84	.82
4.0	.91	.86	.82	.90	.85	.82	.88	.84	.81	.86	.83	.80	.84	.81	.79	.77
5.0	.86	.80	.76	.85	.80	.76	.83	.79	.75	.82	.78	.75	.80	.77	.74	.73
6.0	.81	.75	.71	.80	.75	.71	.79	.74	.71	.77	.73	.70	.76	.73	.70	.68
7.0	.77	.71	.67	.76	.71	.67	.75	.70	.66	.74	.69	.66	.72	.69	.66	.64
8.0	.72	.67	.63	.72	.67	.63	.71	.66	.63	.70	.65	.62	.69	.65	.62	.61
9.0	.69	.63	.59	.68	.63	.59	.67	.62	.59	.66	.62	.59	.66	.62	.59	.57
10.0	.65	.60	.56	.65	.60	.56	.64	.59	.56	.63	.59	.56	.63	.59	.56	.54



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25DEG
Operators:
Test Date: 2024-01-24

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 γ Test System: EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity: 65.0%
Test Distance: 7.450m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:220.66V I:0.0472A P:9.5291W PF:0.9144 Freq:50.01Hz Lamp Flux:802.971x1 lm					
NAME: DL9415-WHTC10C03			TYPE:		WEIGHT:
SPEC.: white RA80 3000K+5700K			DIM.:		SERIAL No.:
MFR.:			SUR.: 85mm		Shielding Angle:

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.172	.098	.031	.165	.094	.030	.153	.088	.028	.141	.081	.026	.131	.076	.024	
2.0	.164	.090	.028	.158	.087	.027	.147	.082	.025	.138	.077	.024	.129	.073	.023	
3.0	.155	.083	.025	.151	.081	.024	.142	.077	.023	.133	.073	.022	.126	.070	.022	
4.0	.148	.077	.023	.144	.075	.022	.136	.072	.022	.129	.069	.021	.122	.066	.020	
5.0	.141	.072	.021	.137	.070	.021	.131	.068	.020	.124	.066	.020	.118	.063	.019	
6.0	.134	.067	.019	.131	.066	.019	.125	.064	.019	.120	.062	.018	.115	.060	.018	
7.0	.129	.064	.018	.126	.063	.018	.121	.061	.018	.116	.059	.017	.111	.058	.017	
8.0	.123	.060	.017	.121	.059	.017	.116	.058	.017	.112	.057	.016	.108	.055	.016	
9.0	.118	.057	.016	.116	.057	.016	.112	.055	.016	.108	.054	.015	.104	.053	.015	
10.0	.114	.054	.015	.112	.054	.015	.108	.053	.015	.104	.052	.015	.101	.051	.015	

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.171	.157	.145	.146	.135	.125	.100	.093	.086	.058	.054	.050	.018	.017	.016	
2.0	.155	.133	.114	.133	.114	.098	.091	.079	.068	.053	.046	.040	.017	.015	.013	
3.0	.142	.114	.091	.122	.098	.078	.084	.068	.055	.048	.040	.032	.016	.013	.011	
4.0	.132	.099	.073	.113	.085	.064	.078	.059	.045	.045	.035	.027	.014	.011	.009	
5.0	.123	.087	.060	.106	.075	.053	.073	.053	.037	.042	.031	.022	.014	.010	.007	
6.0	.115	.078	.051	.099	.067	.044	.068	.047	.031	.040	.028	.019	.013	.009	.006	
7.0	.109	.070	.043	.094	.061	.037	.065	.043	.026	.038	.025	.016	.012	.008	.005	
8.0	.103	.064	.037	.089	.055	.032	.061	.039	.023	.036	.023	.014	.012	.008	.004	
9.0	.098	.059	.032	.085	.051	.028	.059	.036	.020	.034	.021	.012	.011	.007	.004	
10.0	.094	.054	.028	.081	.047	.024	.056	.033	.017	.033	.020	.010	.011	.006	.003	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2024-01-24

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.450m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:220.66V I:0.0472A P:9.5291W PF:0.9144 Freq:50.01Hz Lamp Flux:802.971x1 lm										
NAME: DL9415-WHTC10C03					TYPE:			WEIGHT:		
SPEC.: white RA80 3000K+5700K					DIM.:			SERIAL No.:		
MFR.:					SUR.: 85mm			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	13.1	14.0	13.3	14.1	14.3	15.6	16.5	15.8	16.6	16.8
3H	13.1	14.0	13.4	14.2	14.4	15.4	16.3	15.7	16.5	16.7
4H	13.3	14.0	13.5	14.3	14.5	15.4	16.2	15.7	16.4	16.6
6H	13.4	14.2	13.7	14.4	14.7	15.4	16.1	15.7	16.3	16.6
8H	13.5	14.2	13.8	14.5	14.7	15.3	16.0	15.6	16.3	16.6
12H	13.6	14.2	13.9	14.5	14.8	15.3	16.0	15.6	16.3	16.5
4H 2H	12.9	13.7	13.1	13.9	14.1	15.3	16.1	15.6	16.3	16.6
3H	13.0	13.7	13.4	14.0	14.3	15.3	15.9	15.6	16.2	16.5
4H	13.3	13.9	13.6	14.2	14.5	15.2	15.9	15.6	16.1	16.5
6H	13.6	14.1	14.0	14.5	14.8	15.2	15.8	15.6	16.1	16.4
8H	13.7	14.2	14.1	14.6	15.0	15.2	15.7	15.6	16.1	16.4
12H	13.8	14.3	14.2	14.7	15.1	15.2	15.7	15.6	16.0	16.4
8H 4H	13.3	13.8	13.7	14.1	14.5	15.2	15.7	15.6	16.0	16.4
6H	13.7	14.1	14.1	14.5	14.9	15.2	15.6	15.6	16.0	16.4
8H	13.9	14.3	14.4	14.7	15.1	15.2	15.6	15.7	16.0	16.5
12H	14.1	14.4	14.6	14.8	15.3	15.2	15.6	15.7	16.0	16.5
12H 4H	13.3	13.7	13.7	14.1	14.5	15.1	15.6	15.5	16.0	16.4
6H	13.7	14.1	14.2	14.5	14.9	15.2	15.6	15.6	16.0	16.4
8H	14.0	14.3	14.4	14.7	15.2	15.2	15.5	15.7	16.0	16.5
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 2.3 / - 1.8					+ 4.2 / - 4.8				
1.5H	+ 4.4 / - 1.8					+ 6.6 / - 4.7				
2.0H	+ 0.5 / - 0.2					+ 4.2 / - 1.0				

CIE Pub.117, 803.0 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.8)
Area: 0.00567 m2

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2024-01-24

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.450m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.66V I:0.0472A P:9.5291W PF:0.9144 Freq:50.01Hz Lamp Flux:802.971x1 lm		
NAME: DL9415-WHTC10C03	TYPE:	WEIGHT:
SPEC.: white RA80 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 85mm	Shielding Angle:

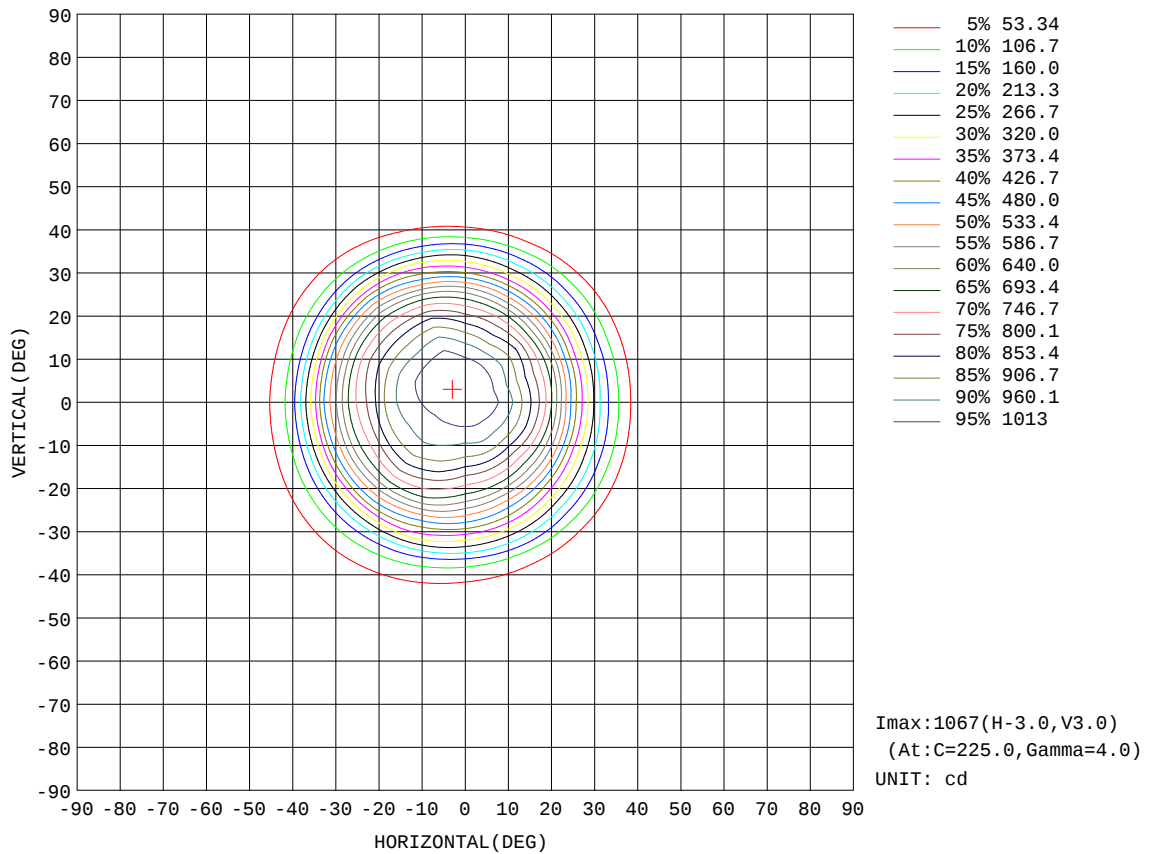
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	89	83	79	88	83	79	88	82	79	76
0.80	96	91	87	96	90	87	94	90	87	83
1.00	100	95	92	99	95	91	98	94	91	87
1.25	104	99	96	103	99	95	101	97	95	91
1.50	107	102	99	105	101	98	103	100	97	93
2.00	109	105	102	108	104	101	105	102	100	95
2.50	111	107	104	109	106	103	106	103	101	96
3.00	112	109	106	110	107	105	107	105	103	97
4.00	114	111	109	112	110	108	108	107	105	98
5.00	115	113	111	113	111	110	109	108	107	99
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2024-01-24

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.450m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:220.66V I:0.0472A P:9.5291W PF:0.9144 Freq:50.01Hz Lamp Flux:802.971x1 lm		
NAME: DL9415-WHTC10C03	TYPE:	WEIGHT:
SPEC.: white RA80 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 85mm	Shielding Angle:



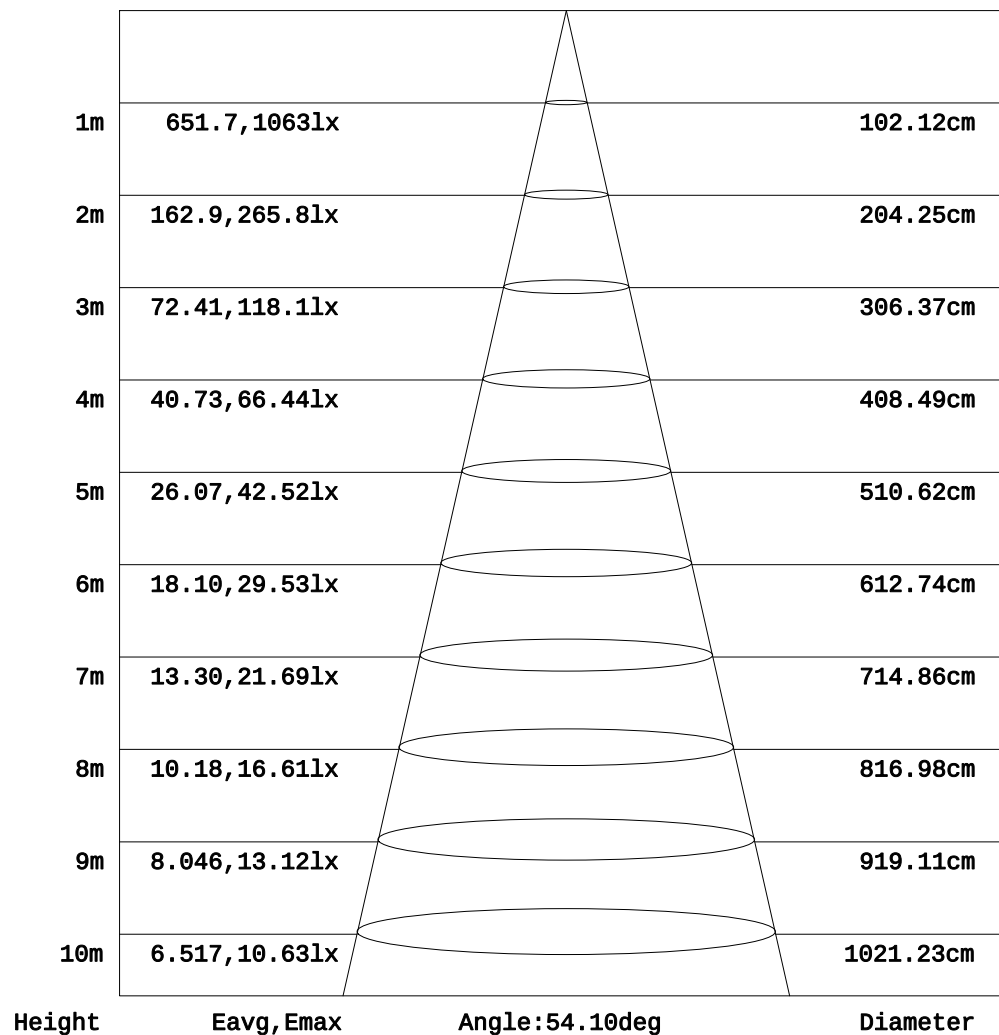
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2024-01-24

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.450m [K=1.0000]
Remarks:

AAI Figure

Test:U:220.66V I:0.0472A P:9.5291W PF:0.9144 Freq:50.01Hz Lamp Flux:802.971x1 lm		
NAME: DL9415-WHTC10C03	TYPE:	WEIGHT:
SPEC.: white RA80 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 85mm	Shielding Angle:

Flux out:578.8 lm



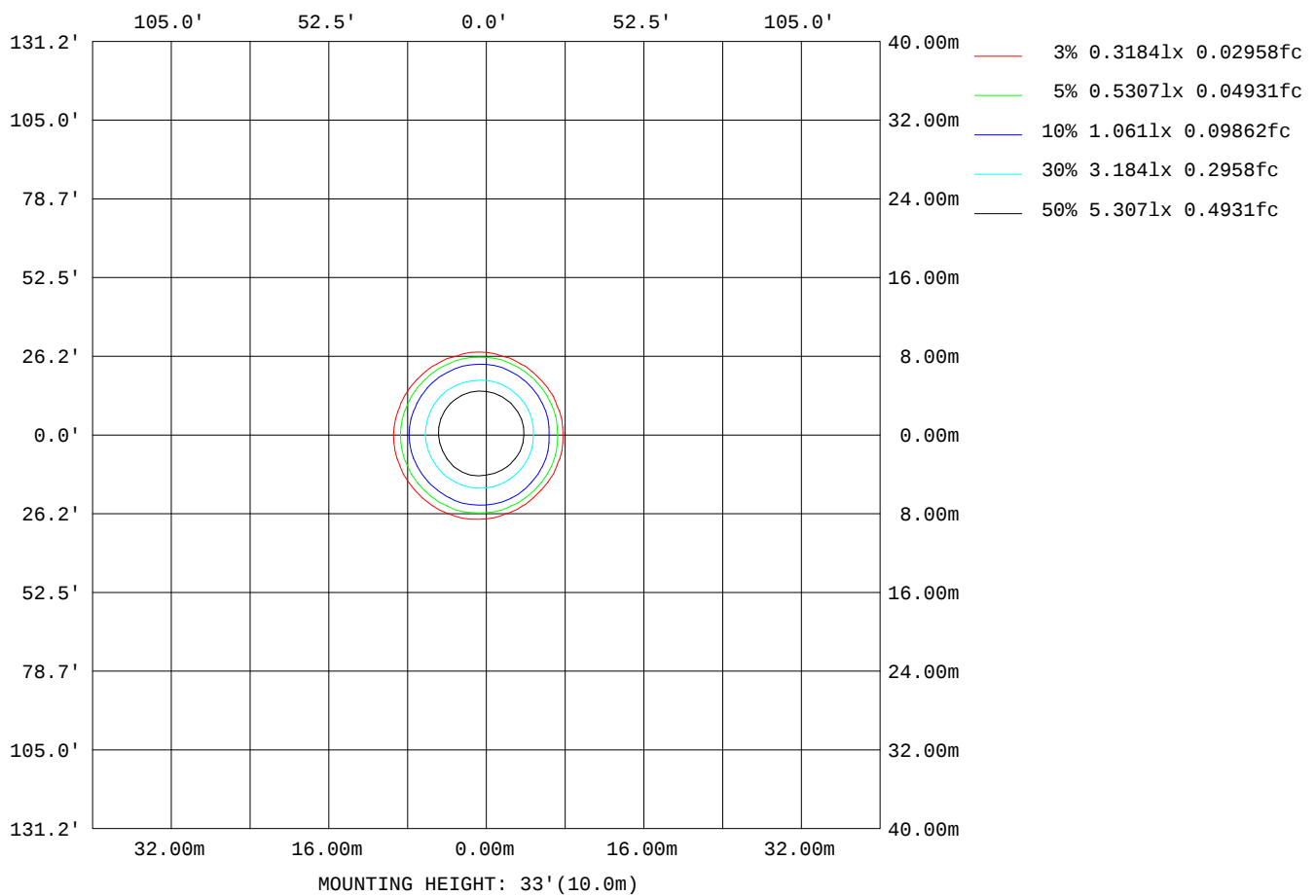
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2024-01-24

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-2000B_V1 SYSTEM V2.00.428
 Humidity: 65.0%
 Test Distance: 7.450m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:220.66V I:0.0472A P:9.5291W PF:0.9144 Freq:50.01Hz Lamp Flux:802.971x1 lm		
NAME: DL9415-WHTC10C03	TYPE:	WEIGHT:
SPEC.: white RA80 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 85mm	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2024-01-24

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.450m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:220.66V I:0.0472A P:9.5291W PF:0.9144 Freq:50.01Hz Lamp Flux:802.971x1 lm		
NAME: DL9415-WHTC10C03	TYPE:	WEIGHT:
SPEC.: white RA80 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 85mm	Shielding Angle:

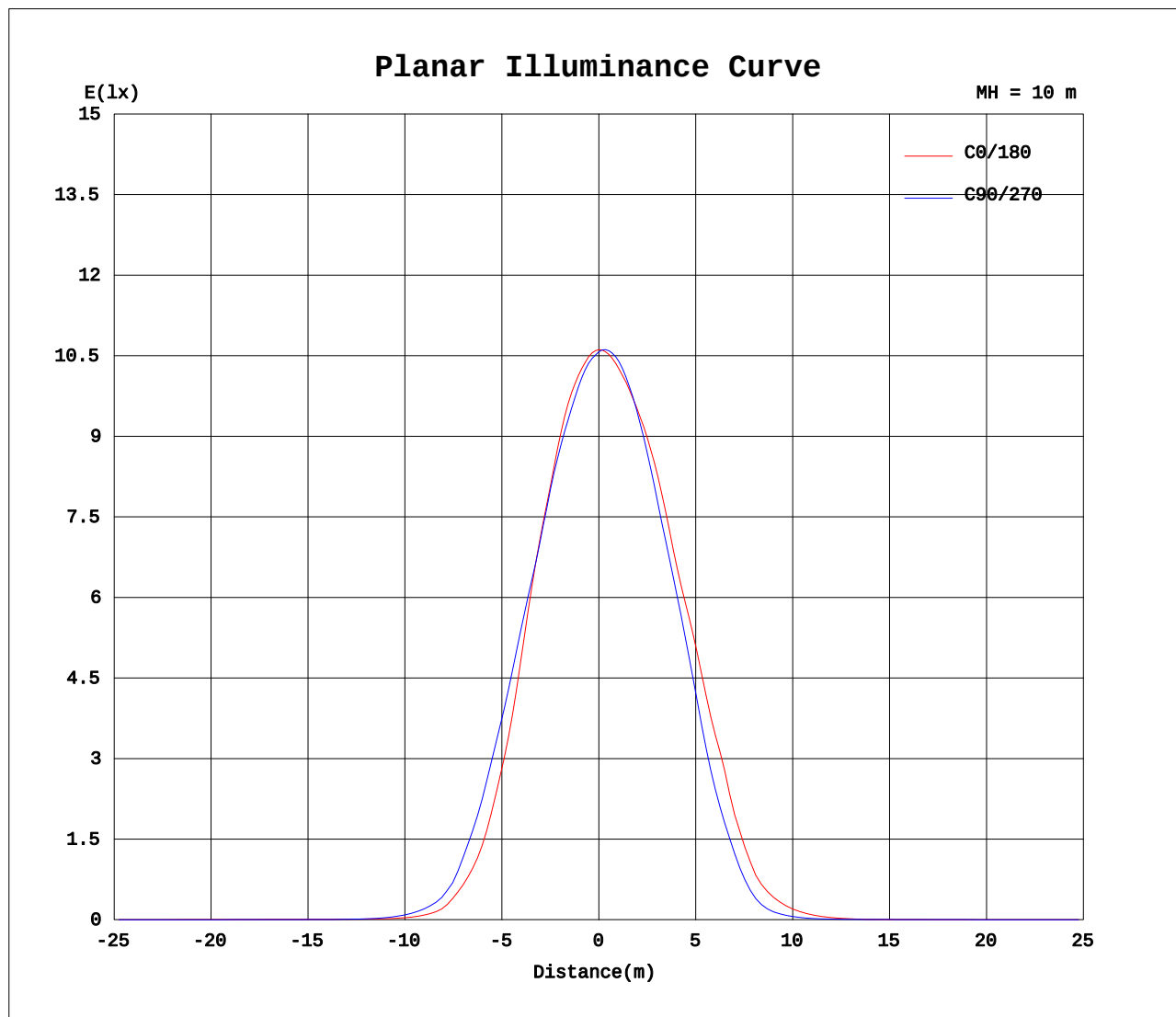
AvgL	cd/m2
L_0~180(65)av	1126
L_0~180(75)av	1425
L_0~180(85)av	1447
L_90~270(65)av	1034
L_90~270(75)av	1221
L_90~270(85)av	1374
L_45(65)av	1076
L_45(75)av	1326
L_45(85)av	1418

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2024-01-24

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.450m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2024-01-24

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-2000B_V1 SYSTEM V2.00.428
 Humidity: 65.0%
 Test Distance: 7.450m [K=1.0000]
 Remarks:

```

Range: 0 - 90DEG
Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.450m [K=1.0000]
Remarks:

```