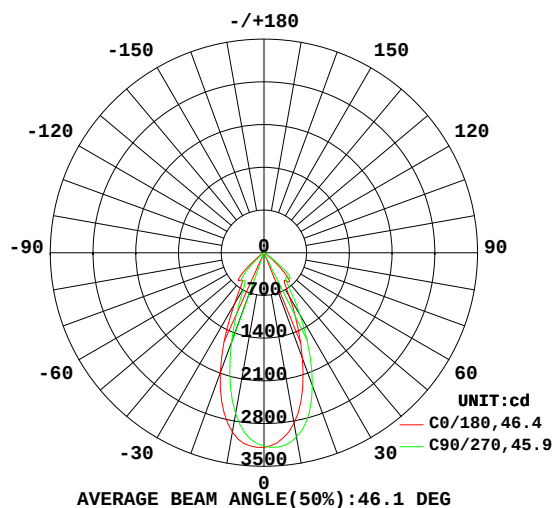


LUMINAIRE PHOTOMETRIC TEST REPORT

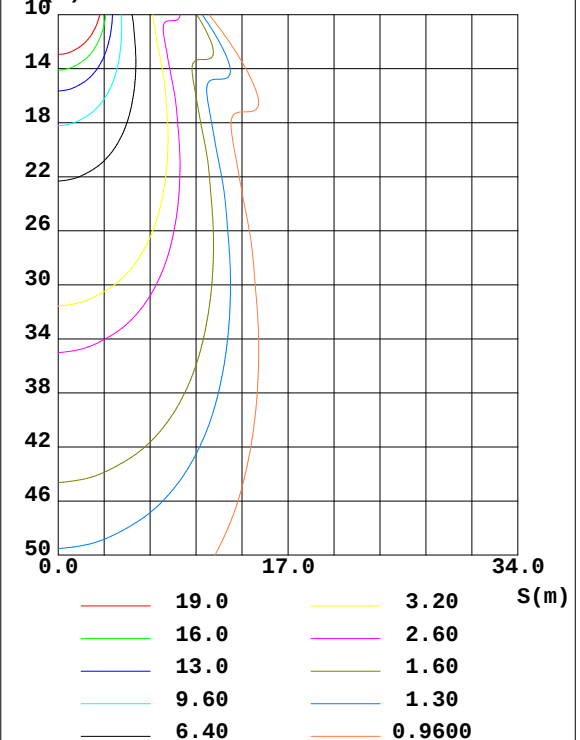
Test:U:220.94V I:0.1238A P:26.015W PF:0.9510 Freq:50.01Hz Lamp Flux:2529.89x1 lm					
NAME: 0312110		TYPE:		WEIGHT:	
SPEC.: 28W		DIM.:		SERIAL No.:	
MFR.:		SUR.: 103mm		Shielding Angle:	

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 97.25 lm/W
MODEL	TB2514 4000K	I _{max} (cd)	3193	S/MH(C0/180)	0.76	
NOMINAL POWER(W)	28	LOR(%)	100.0	S/MH(C90/270)	0.64	
RATED VOLTAGE(V)	220-240	TOTAL FLUX(lm)	2529.9	η UP, DN(C0-180)	0.5, 54.7	
NOMINAL FLUX(lm)	2529.89	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.3, 44.5	
LAMPS INSIDE	1	η up(%)	0.8	CIBSE SHR NOM	0.75	
TEST VOLTAGE(V)	220	η down(%)	99.2	CIBSE SHR MAX	0.75	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2021-12-07

γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
 Test System: EVERFINE G0-2000B_V1 SYSTEM V2.00.428
 Humidity: 65.0%
 Test Distance: 7.250m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

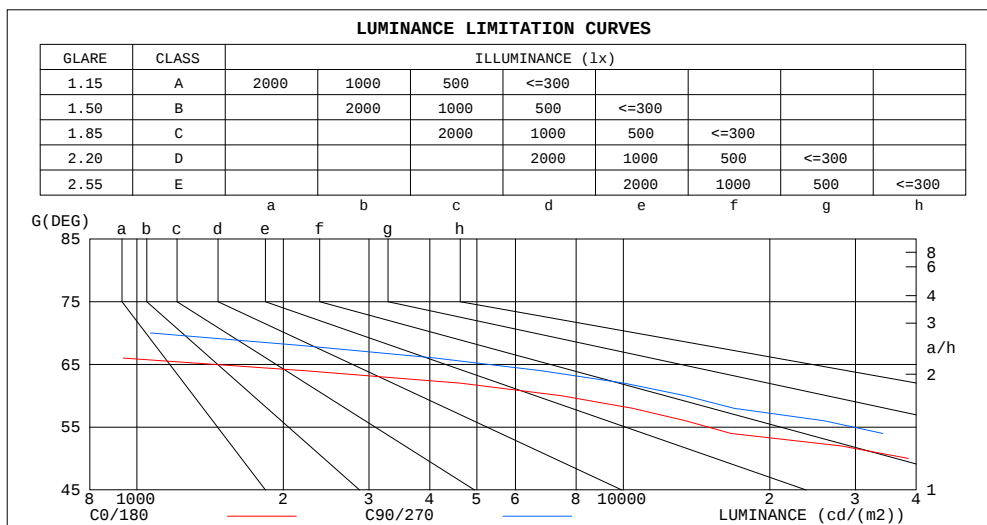
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	2837	2975	3063	3070	2983	2820	2680	2680	0- 10	289.9	289.9	11.5, 11.5
20	1847	2144	2322	2308	2095	1772	1561	1588	10- 20	685.0	974.8	38.5, 38.5
30	832.7	1037	1184	1158	972.2	780.5	670.6	681.5	20- 30	635.3	1610	63.6, 63.6
40	627.8	579.0	548.2	545.6	587.8	625.9	583.4	581.5	30- 40	422.1	2032	80.3, 80.3
50	206.3	347.2	448.3	458.9	290.2	150.2	94.80	133.0	40- 50	365.8	2398	94.8, 94.8
60	31.00	47.99	55.77	58.05	40.43	24.39	13.79	15.36	50- 60	98.59	2497	98.7, 98.7
70	0.7505	1.933	3.039	2.754	1.148	0.4483	0.2663	0.3482	60- 70	12.54	2509	99.2, 99.2
80	0.1938	0.1974	0.2490	0.1974	0.0731	0.0842	0.0732	0.0732	70- 80	0.4607	2510	99.2, 99.2
90	0.4749	0.3988	0.2848	0.3183	0.1427	0.1606	0.2087	0.1607	80- 90	0.1917	2510	99.2, 99.2
100	1.001	0.8524	0.6868	0.7207	0.4025	0.4602	0.5525	0.4603	90-100	0.4724	2510	99.2, 99.2
110	1.969	1.694	1.421	1.434	0.8818	1.001	1.171	1.027	100-110	1.004	2511	99.3, 99.3
120	3.548	3.094	2.696	2.696	1.749	1.962	2.177	1.966	110-120	1.841	2513	99.3, 99.3
130	5.332	4.915	4.476	4.440	3.047	3.373	3.607	3.347	120-130	2.911	2516	99.5, 99.5
140	6.912	6.538	6.173	6.063	4.671	4.963	5.223	4.861	130-140	3.764	2520	99.6, 99.6
150	7.808	7.678	7.428	7.309	6.125	6.324	6.399	6.090	140-150	3.968	2524	99.8, 99.8
160	7.922	7.882	7.933	7.703	6.947	7.008	7.038	6.650	150-160	3.320	2527	99.9, 99.9
170	7.459	7.542	7.609	7.337	7.301	7.220	7.107	6.763	160-170	2.092	2529	100, 100
180	7.304	7.601	7.151	7.202	7.352	7.593	7.169	7.188	170-180	0.6961	2530	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2021-12-07

γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.250m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:220.94V I:0.1238A P:26.015W PF:0.9510 Freq:50.01Hz Lamp Flux:2529.89x1 lm		
NAME: 0312110	TYPE:	WEIGHT:
SPEC.: 28W	DIM.:	SERIAL No.:
MFR.:	SUR.: 103mm	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	357	262
80	134	172
75	150	336
70	263	1067
65	2296	7027
60	7442	13389
55	17051	34970
50	38535	83730
45	95716	98934

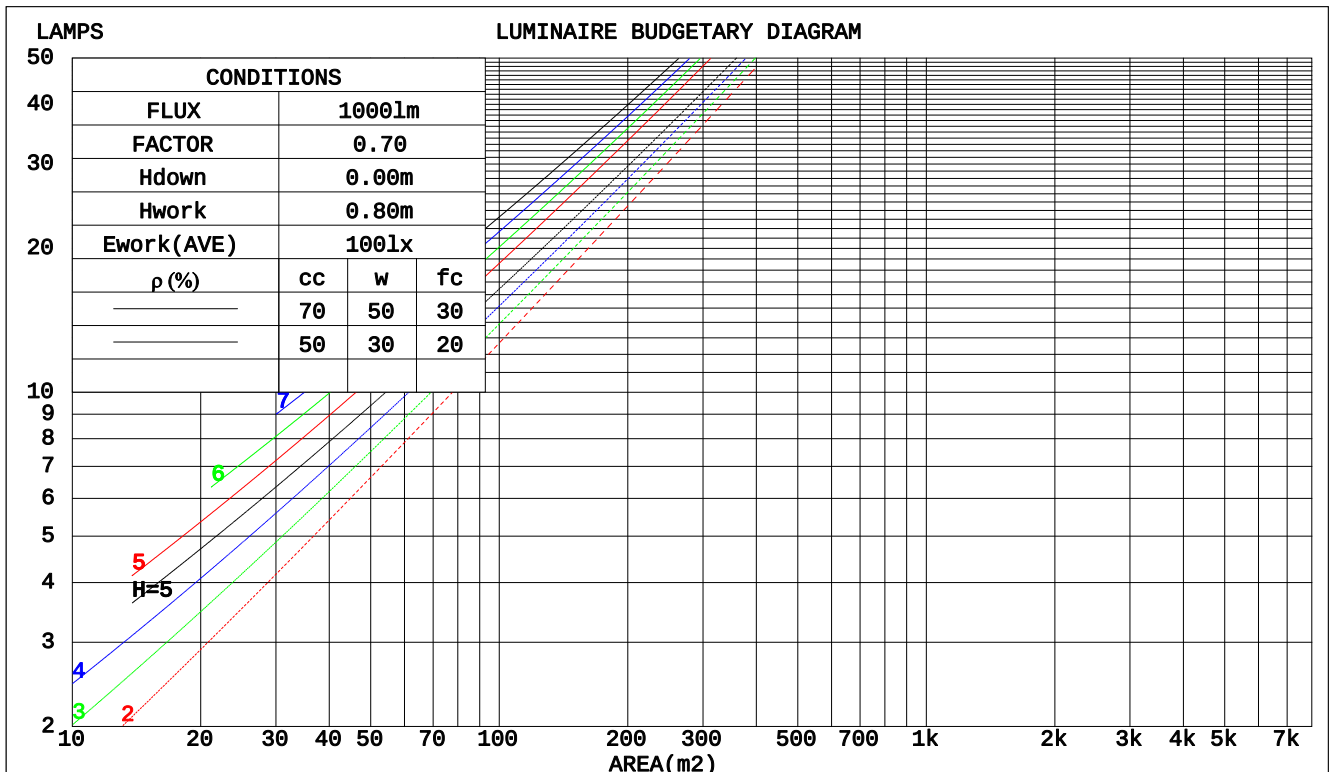
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2021-12-07

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.250m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.94V I:0.1238A P:26.015W PF:0.9510 Freq:50.01Hz Lamp Flux:2529.89x1 lm		
NAME: 0312110	TYPE:	WEIGHT:
SPEC.: 28W	DIM.:	SERIAL No.:
MFR.:	SUR.: 103mm	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						Coefficients of Utilization(CU)									
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	1.01	1.01	1.01	.99
1.0	1.10	1.08	1.05	1.08	1.06	1.03	1.04	1.02	1.00	.90	.98	.97	.96	.95	.94	.92
2.0	1.02	.98	.94	1.00	.96	.93	.97	.93	.91	.94	.91	.89	.91	.89	.87	.85
3.0	.94	.89	.85	.93	.88	.84	.90	.86	.83	.88	.84	.81	.85	.82	.80	.78
4.0	.88	.82	.77	.86	.81	.77	.84	.80	.76	.82	.78	.75	.80	.77	.74	.72
5.0	.82	.75	.71	.81	.75	.71	.79	.74	.70	.77	.73	.69	.75	.72	.68	.67
6.0	.76	.70	.65	.75	.70	.65	.74	.69	.65	.72	.68	.64	.71	.67	.64	.62
7.0	.71	.65	.61	.71	.65	.61	.69	.64	.60	.68	.63	.60	.67	.63	.59	.58
8.0	.67	.61	.57	.67	.61	.56	.65	.60	.56	.64	.59	.56	.63	.59	.56	.54
9.0	.63	.57	.53	.63	.57	.53	.62	.56	.53	.61	.56	.52	.60	.55	.52	.51
10.0	.60	.54	.50	.59	.54	.50	.58	.53	.50	.58	.53	.49	.57	.52	.49	.48



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2021-12-07

γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.250m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:220.94V I:0.1238A P:26.015W PF:0.9510 Freq:50.01Hz Lamp Flux:2529.89x1 lm					
NAME: 0312110			TYPE:		WEIGHT:
SPEC.: 28W			DIM.:		SERIAL No.:
MFR.:			SUR.: 103mm		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	.187	.106	.034	.180	.102	.033	.167	.096	.031	.155	.089	.029	.143	.083	.027		
2.0	.180	.099	.030	.175	.096	.030	.163	.091	.028	.153	.086	.027	.144	.081	.026		
3.0	.173	.092	.028	.168	.090	.027	.158	.086	.026	.149	.082	.025	.141	.078	.024		
4.0	.165	.086	.025	.160	.084	.025	.152	.081	.024	.144	.077	.023	.137	.074	.023		
5.0	.157	.080	.023	.153	.078	.023	.146	.076	.022	.139	.073	.022	.132	.071	.021		
6.0	.149	.075	.021	.146	.074	.021	.139	.071	.021	.133	.069	.020	.128	.067	.020		
7.0	.142	.070	.020	.139	.069	.020	.133	.067	.019	.128	.066	.019	.123	.064	.019		
8.0	.136	.066	.019	.133	.065	.018	.128	.064	.018	.123	.062	.018	.118	.061	.018		
9.0	.129	.063	.017	.127	.062	.017	.122	.061	.017	.118	.059	.017	.114	.058	.017		
10.0	.124	.059	.016	.122	.059	.016	.117	.058	.016	.113	.056	.016	.110	.055	.016		

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	.197	.197	.197	.168	.168	.168	.115	.115	.115	.066	.066	.066	.021	.021	.021	
1.0	.178	.163	.150	.152	.140	.129	.104	.096	.089	.060	.056	.052	.019	.018	.017	
2.0	.164	.139	.118	.140	.119	.102	.096	.083	.071	.055	.048	.042	.018	.016	.014	
3.0	.152	.120	.094	.130	.103	.082	.089	.072	.057	.052	.042	.034	.017	.014	.011	
4.0	.142	.105	.077	.122	.091	.067	.084	.063	.047	.049	.037	.028	.016	.012	.009	
5.0	.134	.094	.064	.115	.081	.056	.079	.057	.040	.046	.033	.023	.015	.011	.008	
6.0	.127	.085	.055	.109	.073	.048	.075	.051	.034	.044	.030	.020	.014	.010	.007	
7.0	.120	.077	.047	.103	.067	.041	.071	.047	.029	.042	.028	.017	.013	.009	.006	
8.0	.115	.071	.041	.099	.062	.036	.068	.043	.026	.040	.026	.015	.013	.008	.005	
9.0	.109	.066	.037	.094	.057	.032	.065	.040	.023	.038	.024	.014	.012	.008	.004	
10.0	.105	.062	.033	.090	.054	.029	.063	.038	.020	.037	.022	.012	.012	.007	.004	

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2021-12-07

γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.250m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:220.94V I:0.1238A P:26.015W PF:0.9510 Freq:50.01Hz Lamp Flux:2529.89x1 lm											
NAME: 0312110					TYPE:			WEIGHT:			
SPEC.: 28W					DIM.:			SERIAL No.:			
MFR.:					SUR.: 103mm			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		19.9	20.9	20.2	21.1	21.3	21.1	22.1	21.3	22.2	22.4
	3H	19.8	20.7	20.0	20.9	21.1	20.9	21.8	21.2	22.0	22.2
	4H	19.7	20.5	20.0	20.8	21.0	20.8	21.7	21.1	21.9	22.1
	6H	19.6	20.4	19.9	20.6	20.9	20.7	21.5	21.0	21.8	22.0
	8H	19.5	20.3	19.8	20.6	20.9	20.6	21.4	21.0	21.7	22.0
	12H	19.5	20.2	19.8	20.5	20.8	20.6	21.3	20.9	21.6	21.9
4H	2H	19.7	20.6	20.0	20.8	21.1	20.8	21.7	21.1	21.9	22.2
	3H	19.5	20.3	19.9	20.6	20.9	20.6	21.4	21.0	21.7	22.0
	4H	19.4	20.1	19.8	20.4	20.8	20.5	21.2	20.9	21.5	21.9
	6H	19.3	19.9	19.7	20.3	20.6	20.4	21.0	20.8	21.4	21.7
	8H	19.3	19.8	19.7	20.2	20.6	20.4	20.9	20.8	21.3	21.7
	12H	19.2	19.7	19.7	20.1	20.5	20.3	20.8	20.8	21.2	21.6
8H	4H	19.3	19.8	19.7	20.2	20.6	20.4	20.9	20.8	21.3	21.7
	6H	19.2	19.6	19.6	20.0	20.5	20.3	20.7	20.7	21.1	21.6
	8H	19.1	19.5	19.6	20.0	20.4	20.2	20.6	20.7	21.1	21.5
	12H	19.1	19.4	19.6	19.9	20.4	20.2	20.5	20.7	21.0	21.5
12H	4H	19.2	19.7	19.7	20.1	20.5	20.3	20.8	20.8	21.2	21.6
	6H	19.1	19.5	19.6	20.0	20.4	20.2	20.6	20.7	21.1	21.5
	8H	19.1	19.4	19.6	19.9	20.4	20.2	20.5	20.7	21.0	21.5
Variations with the observer position at spacings(CIE Pub.117):											
S = 1.0H	+ 3.6 / - 9.0					+ 3.3 / - 6.7					
1.5H	+ 2.0 / - 6.9					+ 2.2 / - 6.4					
2.0H	+ 6.0 / -11.9					+ 5.3 / -11.7					

CIE Pub.117, 2530 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 3.2$)
Area: 0.00833 m²

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2021-12-07

γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
 γ Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.250m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.94V I:0.1238A P:26.015W PF:0.9510 Freq:50.01Hz Lamp Flux:2529.89x1 lm		
NAME: 0312110	TYPE:	WEIGHT:
SPEC.: 28W	DIM.:	SERIAL No.:
MFR.:	SUR.: 103mm	Shielding Angle:

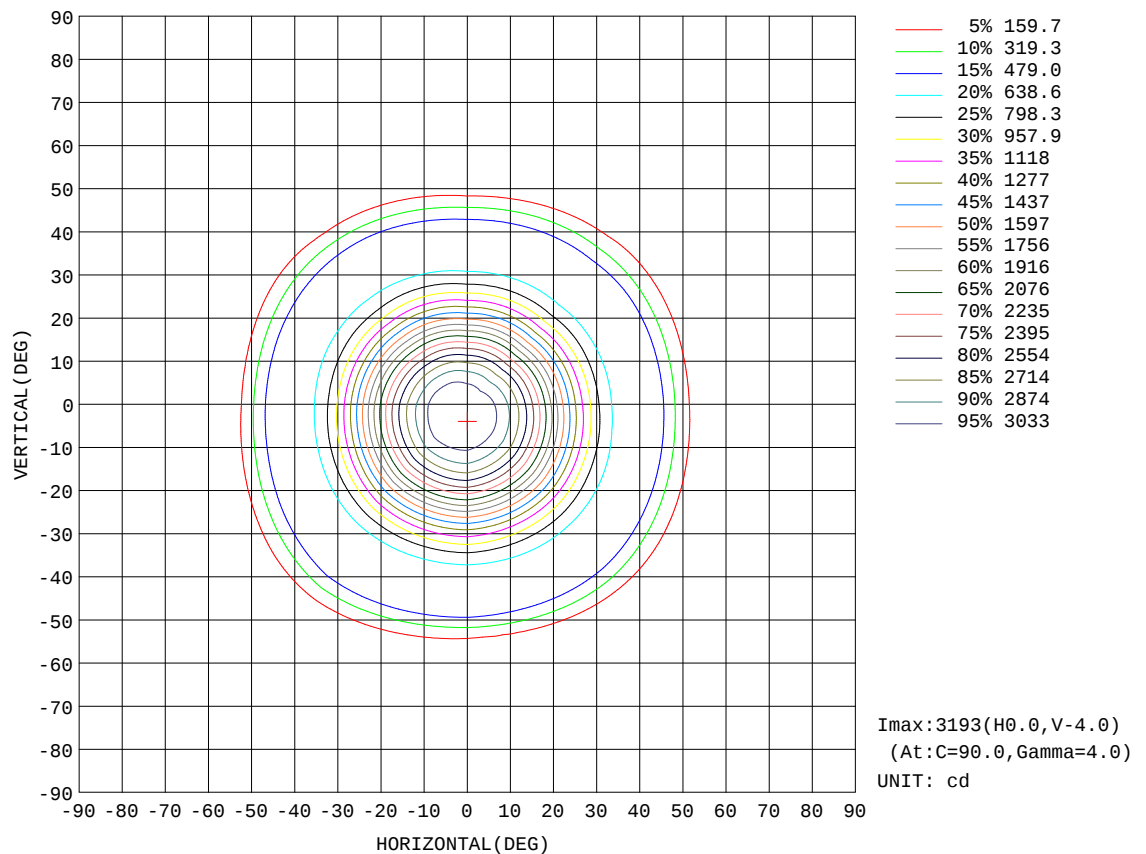
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	79	71	66	78	71	66	77	70	66	62
0.80	88	80	76	87	80	76	86	79	75	71
1.00	94	87	83	93	87	83	91	87	82	77
1.25	99	93	89	98	92	88	96	91	87	83
1.50	102	97	93	101	96	92	99	94	91	86
2.00	106	101	98	105	100	97	102	98	95	89
2.50	108	104	100	106	102	99	103	100	97	91
3.00	110	106	103	108	105	102	105	102	99	93
4.00	112	109	106	110	107	105	106	104	102	94
5.00	114	111	109	111	109	107	107	105	104	95
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2021-12-07

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.250m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:220.94V I:0.1238A P:26.015W PF:0.9510 Freq:50.01Hz Lamp Flux:2529.89x1 lm		
NAME: 0312110	TYPE:	WEIGHT:
SPEC.: 28W	DIM.:	SERIAL No.:
MFR.:	SUR.: 103mm	Shielding Angle:

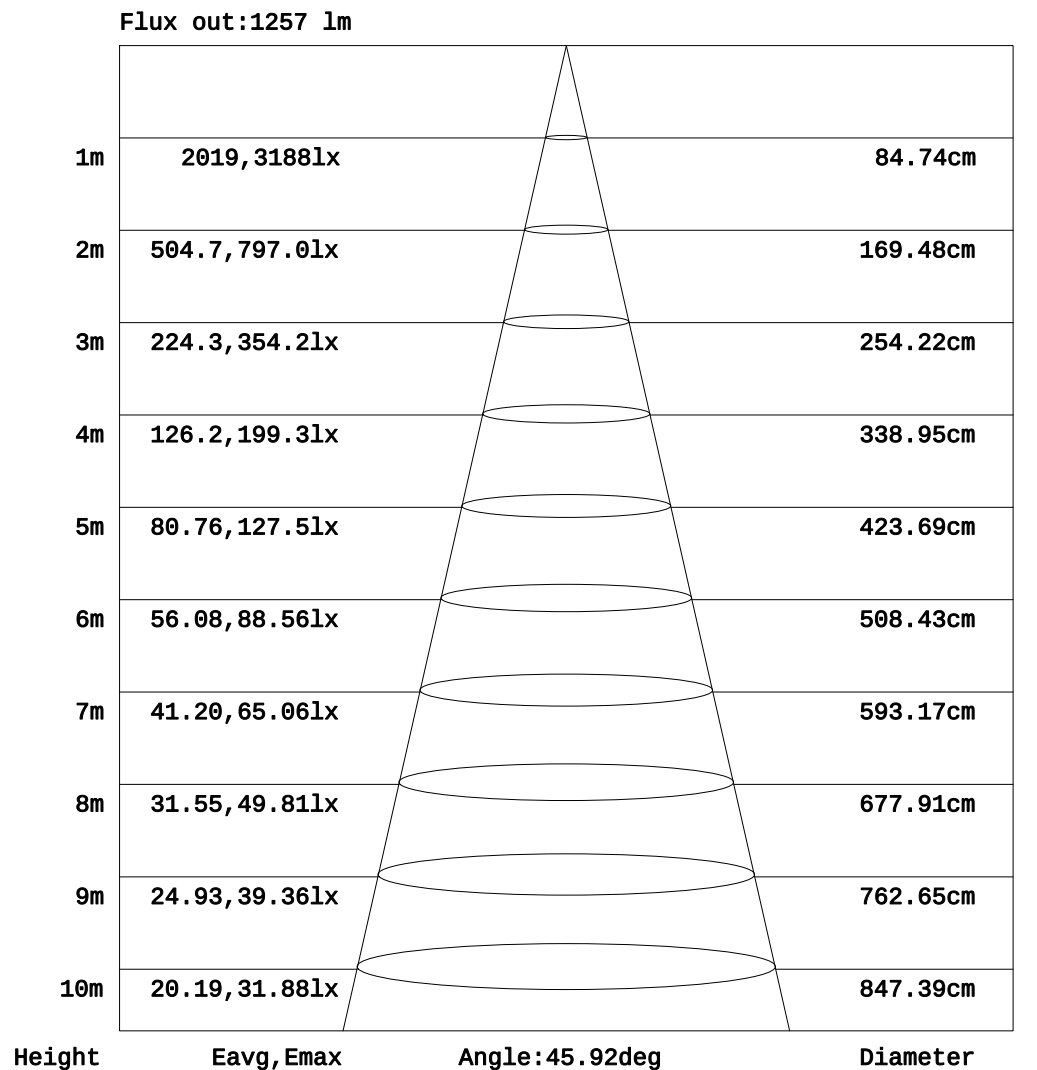


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2021-12-07

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.250m [K=1.0000]
Remarks:

AAI Figure

Test:U:220.94V I:0.1238A P:26.015W PF:0.9510 Freq:50.01Hz Lamp Flux:2529.89x1 lm		
NAME: 0312110	TYPE:	WEIGHT:
SPEC.: 28W	DIM.:	SERIAL No.:
MFR.:	SUR.: 103mm	Shielding Angle:



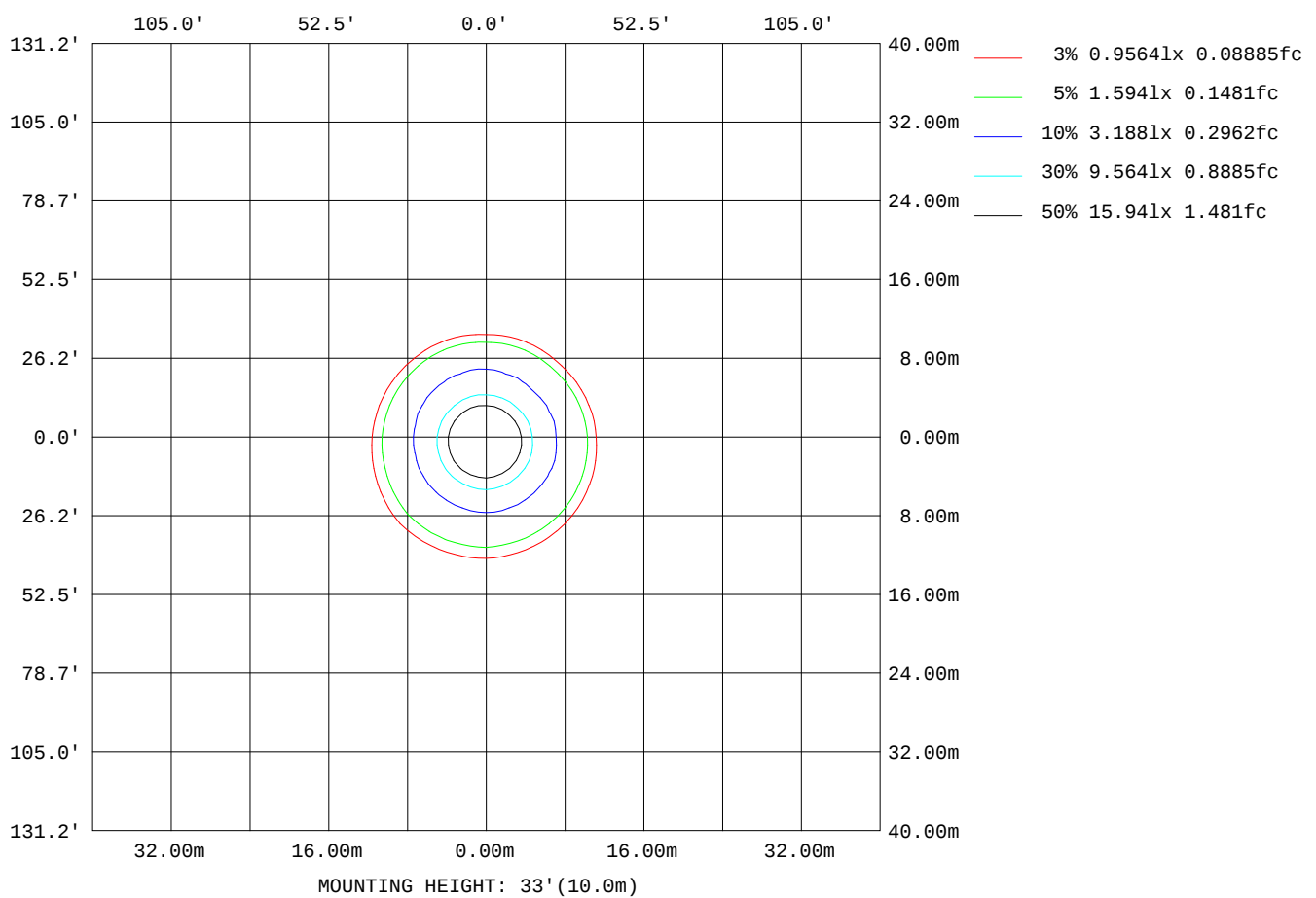
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2021-12-07

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.250m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:220.94V I:0.1238A P:26.015W PF:0.9510 Freq:50.01Hz Lamp Flux:2529.89x1 lm		
NAME: 0312110	TYPE:	WEIGHT:
SPEC.: 28W	DIM.:	SERIAL No.:
MFR.:	SUR.: 103mm	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2021-12-07

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.250m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:220.94V I:0.1238A P:26.015W PF:0.9510 Freq:50.01Hz Lamp Flux:2529.89x1 lm		
NAME: 0312110	TYPE:	WEIGHT:
SPEC.: 28W	DIM.:	SERIAL No.:
MFR.:	SUR.: 103mm	Shielding Angle:

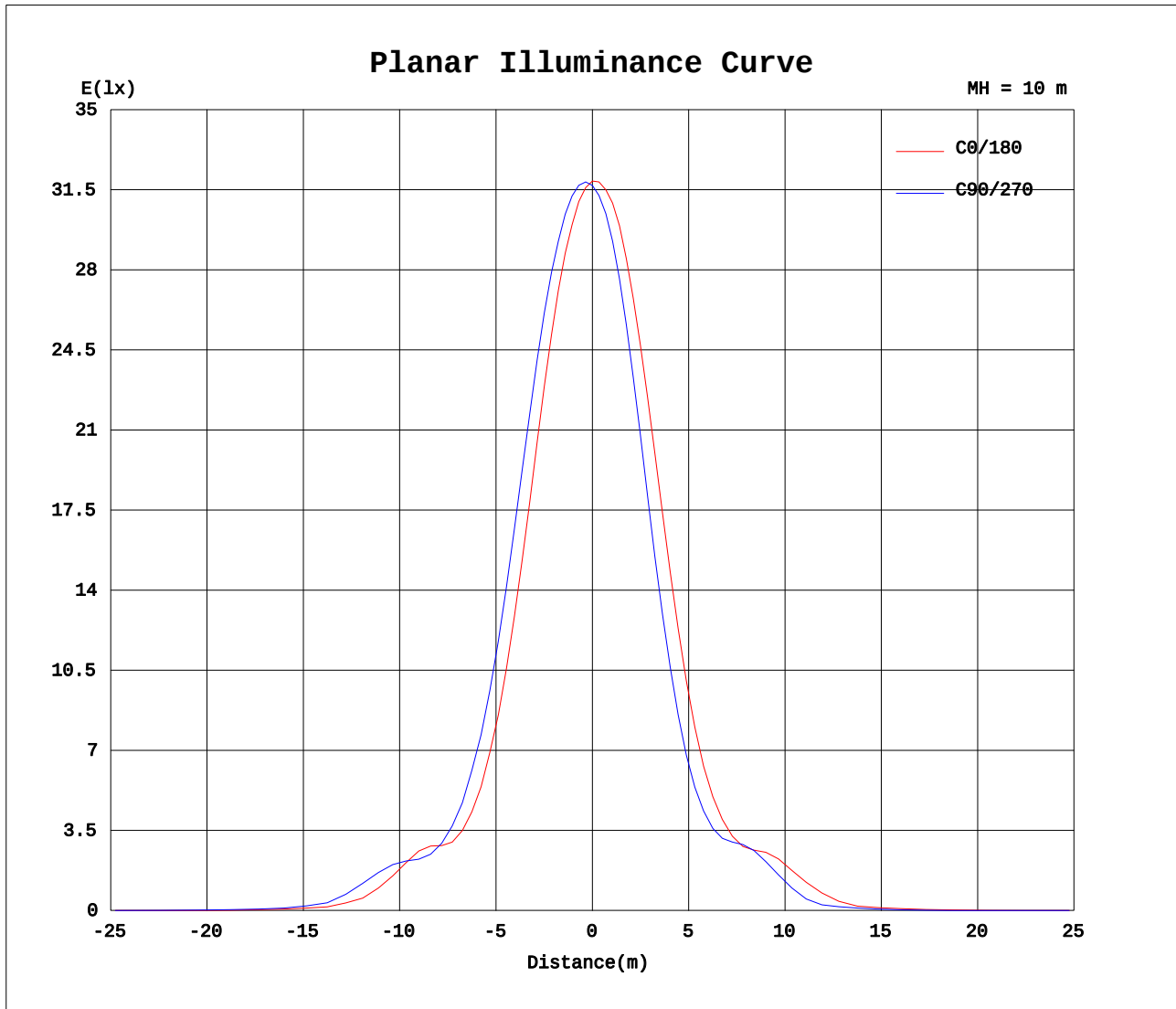
AvgL	cd/m2
L_0~180(65)av	2067
L_0~180(75)av	114
L_0~180(85)av	258
L_90~270(65)av	2902
L_90~270(75)av	141
L_90~270(85)av	206
L_45(65)av	2919
L_45(75)av	129
L_45(85)av	203

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2021-12-07

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.250m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2021-12-07

γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
 Test System: EVERFINE G0-2000B_V1 SYSTEM V2.00.428
 Humidity: 65.0%
 Test Distance: 7.250m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.94V I:0.1238A P:26.015W PF:0.9510 Freq:50.01Hz Lamp Flux:2529.89x1 lm		
NAME: 0312110	TYPE:	WEIGHT:
SPEC.: 28W	DIM.:	SERIAL No.:
MFR.:	SUR.: 103mm	Shielding Angle:

Table--1

UNIT: cd

C(DEC)	0	45	90	135	180	225	270	315										
γ (DEC)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85
0	3188	3181	3169	3156	3188	3181	3169	3156										
5	3122	3168	3193	3175	3173	3121	3068	3047										
10	2837	2975	3063	3070	2983	2820	2680	2680										
15	2507	2727	2859	2859	2706	2458	2276	2286										
20	1847	2144	2322	2308	2095	1772	1561	1588										
25	1392	1680	1859	1836	1618	1312	1123	1146										
30	833	1037	1184	1158	972	780	671	682										
35	614	736	827	801	699	599	555	540										
40	628	579	548	546	588	626	583	582										
45	564	636	583	589	606	508	420	434										
50	206	347	448	459	290	150	94.8	133										
55	81.5	109	167	217	97.2	72.3	56.2	58.5										
60	31.0	48.0	55.8	58.1	40.4	24.4	13.8	15.4										
65	8.08	20.2	24.7	28.3	14.4	4.55	2.29	2.50										
70	0.75	1.93	3.04	2.75	1.15	0.45	0.27	0.35										
75	0.32	0.46	0.73	0.62	0.28	0.21	0.10	0.16										
80	0.19	0.20	0.25	0.20	0.07	0.08	0.07	0.07										
85	0.26	0.22	0.19	0.20	0.08	0.08	0.10	0.07										
90	0.47	0.40	0.28	0.32	0.14	0.16	0.21	0.16										
95	0.63	0.55	0.43	0.45	0.21	0.23	0.35	0.24										
100	1.00	0.85	0.69	0.72	0.40	0.46	0.55	0.46										
105	1.32	1.14	0.94	0.97	0.56	0.62	0.75	0.64										
110	1.97	1.69	1.42	1.43	0.88	1.00	1.17	1.03										
115	2.52	2.18	1.86	1.86	1.18	1.33	1.52	1.35										
120	3.55	3.09	2.70	2.70	1.75	1.96	2.18	1.97										
125	4.29	3.83	3.39	3.38	2.22	2.48	2.69	2.47										
130	5.33	4.92	4.48	4.44	3.05	3.37	3.61	3.35										
135	6.02	5.58	5.17	5.09	3.69	4.02	4.26	3.97										
140	6.91	6.54	6.17	6.06	4.67	4.96	5.22	4.86										
145	7.38	7.09	6.77	6.65	5.30	5.56	5.81	5.41										
150	7.81	7.68	7.43	7.31	6.12	6.32	6.40	6.09										
155	7.94	7.87	7.71	7.59	6.51	6.66	6.65	6.38										
160	7.92	7.88	7.93	7.70	6.95	7.01	7.04	6.65										
165	7.84	7.82	7.95	7.66	7.13	7.11	7.07	6.68										
170	7.46	7.54	7.61	7.34	7.30	7.22	7.11	6.76										
175	7.38	7.53	7.33	7.20	7.36	7.48	7.14	7.02										
180	7.30	7.60	7.15	7.20	7.35	7.59	7.17	7.19										

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