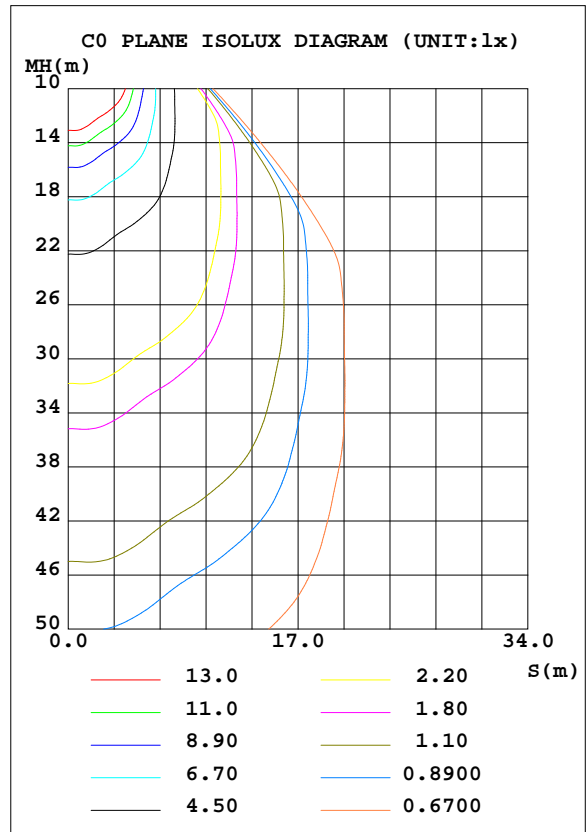
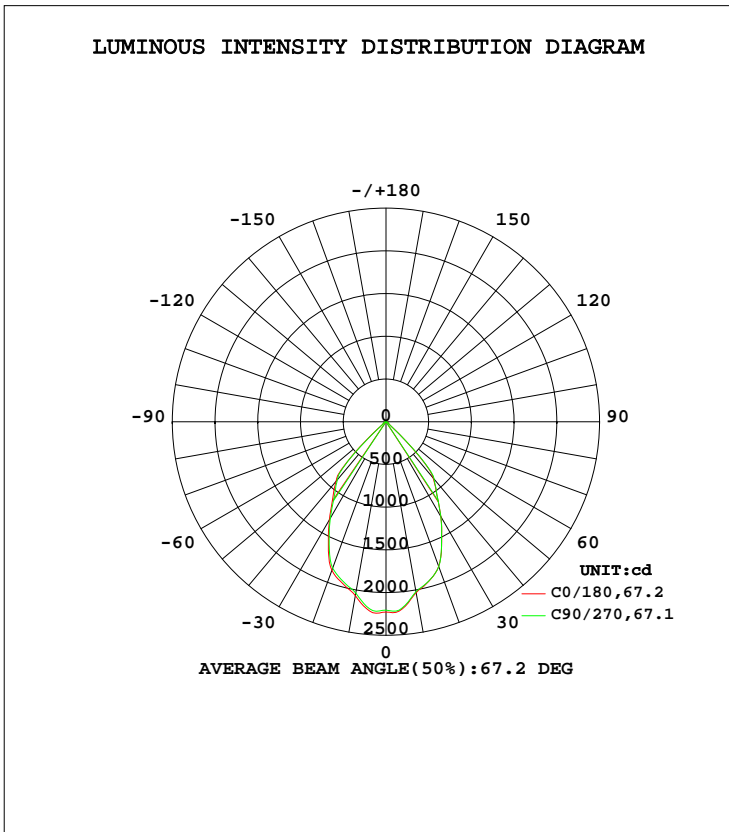


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.00V I:0.1319A P:29.836W PF:0.9838 Freq:49.99Hz Lamp Flux:2584.82x1 lm		
NAME: DL3082-WHTC30C01	TYPE:	WEIGHT:
SPEC.: white RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 100mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 86.63 lm/W			
MODEL	TB25141209 3000K	I _{max} (cd)	2243	S/MH(C0/180)	0.98
NOMINAL POWER(W)	30	LOR(%)	100.0	S/MH(C90/270)	0.98
RATED VOLTAGE(V)	220-240	TOTAL FLUX(lm)	2584.8	η UP, DN(C0-180)	0.0,49.5
NOMINAL FLUX(lm)	2584.82	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0,50.5
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	220	η down(%)	100.0	CIBSE SHR MAX	1.10



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2024-03-07

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

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

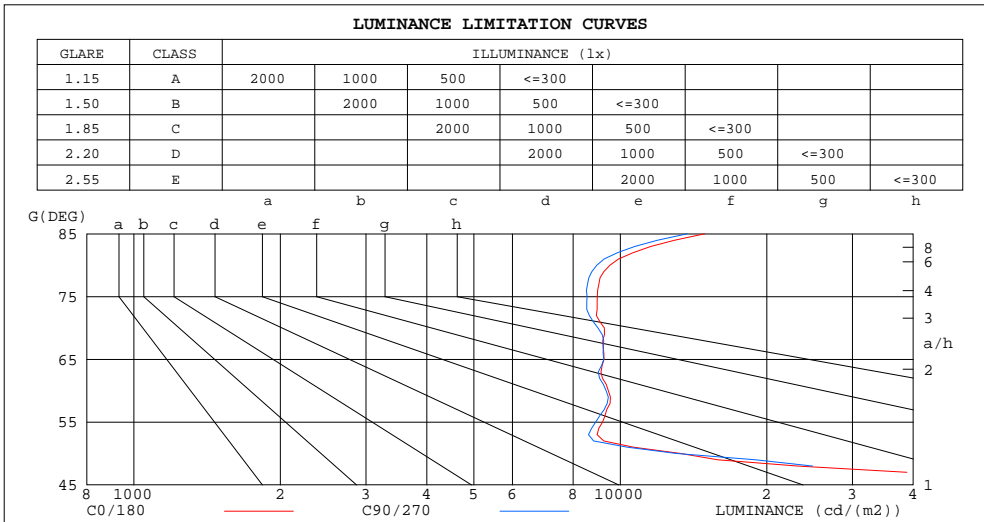
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	$\%lum, lamp$
10	2031	2018	2020	2023	2068	2056	2038	2015	0- 10	203.7	203.7	7.88,7.88
20	1803	1796	1806	1807	1851	1833	1824	1793	10- 20	543.5	747.1	28.9,28.9
30	1286	1280	1285	1273	1327	1305	1306	1282	20- 30	713.1	1460	56.5,56.5
40	861.9	866.1	874.3	885.9	911.2	907.2	886.3	859.7	30- 40	662.7	2123	82.1,82.1
50	67.01	64.58	65.66	71.85	82.07	82.02	78.24	74.45	40- 50	363.2	2486	96.2,96.2
60	37.08	36.99	36.70	36.72	37.85	38.33	37.64	36.79	50- 60	39.71	2526	97.7,97.7
70	24.89	24.65	24.14	23.90	25.52	25.41	25.20	24.98	60- 70	30.33	2556	98.9,98.9
80	12.98	12.64	12.19	12.22	12.76	13.27	13.28	13.10	70- 80	19.34	2575	99.6,99.6
90	0.4787	0.4825	0.4517	0.4362	0.0965	0.0926	0.0965	0.0965	80- 90	9.342	2585	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:2024-03-07

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

LUMINANCE LIMITATION CURVES

Test:U:230.00V I:0.1319A P:29.836W PF:0.9838 Freq:49.99Hz Lamp Flux:2584.82x1 lm		
NAME: DL3082-WHTC30C01	TYPE:	WEIGHT:
SPEC.: white RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 100mm	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	14898	13713
80	9522	8945
75	8969	8540
70	9269	8993
65	9260	9249
60	9448	9351
55	9193	8898
50	13279	13013
45	78584	82225

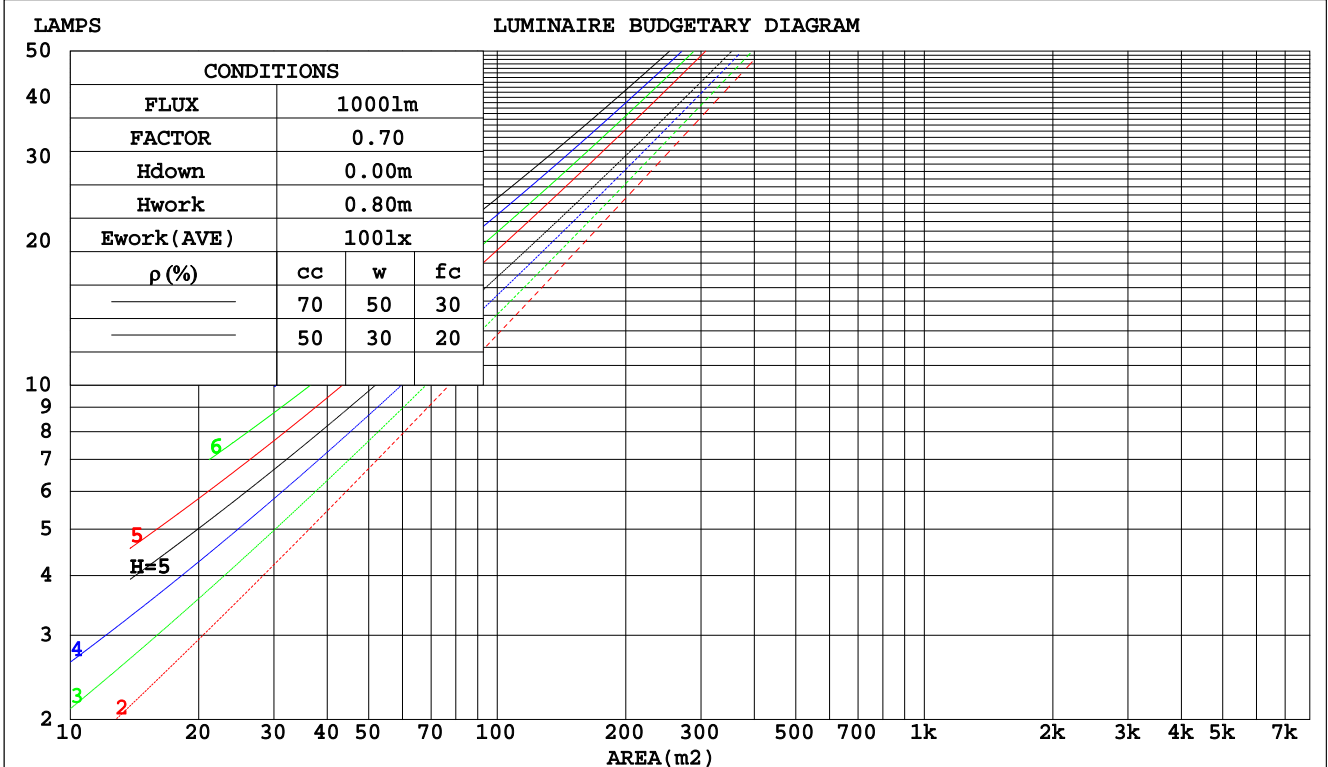
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2024-03-07

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-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:230.00V I:0.1319A P:29.836W PF:0.9838 Freq:49.99Hz Lamp Flux:2584.82x1 lm		
NAME: DL3082-WHTC30C01	TYPE:	WEIGHT:
SPEC.: white RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 100mm	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pw																
pfc	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	1.02	1.02	1.02	1.00
1.0	1.10	1.07	1.04	1.07	1.05	1.03	1.03	1.01	.99	.00	.98	.96	.96	.95	.94	.92
2.0	1.01	.96	.92	.99	.95	.91	.96	.92	.89	.93	.90	.87	.90	.88	.86	.84
3.0	.93	.87	.83	.91	.86	.82	.89	.84	.81	.86	.83	.80	.84	.81	.78	.77
4.0	.86	.80	.75	.85	.79	.74	.82	.77	.73	.80	.76	.73	.78	.75	.72	.70
5.0	.79	.73	.68	.78	.72	.68	.77	.71	.67	.75	.70	.67	.73	.69	.66	.64
6.0	.74	.67	.62	.73	.67	.62	.71	.66	.62	.70	.65	.61	.68	.64	.61	.59
7.0	.69	.62	.57	.68	.62	.57	.67	.61	.57	.65	.60	.56	.64	.60	.56	.55
8.0	.64	.57	.53	.63	.57	.53	.62	.57	.52	.61	.56	.52	.60	.55	.52	.50
9.0	.60	.53	.49	.59	.53	.49	.58	.53	.49	.57	.52	.48	.56	.52	.48	.47
10.0	.56	.50	.45	.56	.50	.45	.55	.49	.45	.54	.49	.45	.53	.48	.45	.44



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2024-03-07

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

WEC AND CCEC

Test:U:230.00V I:0.1319A P:29.836W PF:0.9838 Freq:49.99Hz Lamp Flux:2584.82x1 lm		
NAME: DL3082-WHTC30C01	TYPE:	WEIGHT:
SPEC.: white RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 100mm	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.201	.114	.036	.194	.111	.035	.181	.104	.033	.169	.098	.031	.159	.092	.030	
2.0	.193	.106	.032	.187	.103	.032	.176	.098	.030	.166	.093	.029	.157	.089	.028	
3.0	.183	.098	.029	.178	.096	.029	.169	.092	.028	.161	.088	.027	.153	.084	.026	
4.0	.174	.091	.027	.170	.089	.026	.162	.086	.026	.155	.083	.025	.148	.080	.024	
5.0	.166	.085	.025	.162	.083	.024	.155	.081	.024	.149	.078	.023	.142	.076	.023	
6.0	.158	.079	.023	.155	.078	.023	.148	.076	.022	.143	.074	.022	.137	.072	.021	
7.0	.151	.075	.021	.148	.074	.021	.142	.072	.021	.137	.070	.020	.132	.069	.020	
8.0	.144	.070	.020	.141	.070	.020	.136	.068	.019	.131	.067	.019	.127	.065	.019	
9.0	.137	.066	.019	.135	.066	.018	.131	.065	.018	.126	.063	.018	.122	.062	.018	
10.0	.131	.063	.017	.129	.062	.017	.125	.061	.017	.121	.060	.017	.118	.059	.017	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	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	.173	.157	.143	.148	.135	.123	.101	.093	.085	.058	.054	.049	.019	.017	.016	
2.0	.159	.132	.110	.136	.114	.095	.093	.079	.066	.054	.046	.039	.017	.015	.013	
3.0	.148	.114	.087	.127	.098	.075	.087	.068	.053	.050	.040	.031	.016	.013	.010	
4.0	.138	.099	.069	.119	.086	.060	.082	.060	.042	.047	.035	.025	.015	.011	.008	
5.0	.130	.088	.057	.112	.076	.049	.077	.053	.035	.045	.031	.021	.014	.010	.007	
6.0	.123	.079	.047	.106	.068	.041	.073	.048	.029	.042	.028	.017	.014	.009	.006	
7.0	.117	.072	.040	.101	.062	.035	.070	.044	.025	.040	.026	.015	.013	.008	.005	
8.0	.112	.066	.034	.096	.057	.030	.067	.040	.021	.039	.024	.013	.013	.008	.004	
9.0	.107	.061	.030	.092	.053	.026	.064	.037	.018	.037	.022	.011	.012	.007	.004	
10.0	.102	.056	.026	.088	.049	.023	.061	.034	.016	.036	.020	.010	.012	.007	.003	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2024-03-07

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

UGR(Unified Glare Rating) Table

Test:U:230.00V I:0.1319A P:29.836W PF:0.9838 Freq:49.99Hz Lamp Flux:2584.82x1 lm		
NAME: DL3082-WHTC30C01	TYPE:	WEIGHT:
SPEC.: white RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 100mm	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	20.4	21.5	20.6	21.7	21.8	20.5	21.6	20.7	21.8	21.9
3H	20.3	21.3	20.6	21.5	21.7	20.4	21.4	20.7	21.6	21.8
4H	20.3	21.2	20.6	21.5	21.7	20.4	21.3	20.7	21.5	21.8
6H	20.3	21.1	20.6	21.4	21.7	20.3	21.2	20.6	21.5	21.7
8H	20.3	21.1	20.6	21.4	21.6	20.3	21.2	20.6	21.4	21.7
12H	20.3	21.1	20.6	21.4	21.6	20.3	21.1	20.7	21.4	21.7
4H 2H	20.2	21.1	20.5	21.3	21.6	20.3	21.2	20.5	21.4	21.7
3H	20.1	20.9	20.5	21.2	21.5	20.2	21.0	20.5	21.3	21.6
4H	20.1	20.9	20.5	21.2	21.5	20.2	20.9	20.6	21.2	21.6
6H	20.2	20.8	20.6	21.1	21.5	20.2	20.9	20.6	21.2	21.6
8H	20.2	20.8	20.6	21.1	21.5	20.2	20.8	20.6	21.2	21.6
12H	20.2	20.8	20.7	21.2	21.6	20.3	20.8	20.7	21.2	21.6
8H 4H	20.1	20.7	20.5	21.0	21.4	20.1	20.7	20.5	21.1	21.4
6H	20.1	20.6	20.6	21.0	21.4	20.2	20.7	20.6	21.1	21.5
8H	20.2	20.6	20.6	21.0	21.5	20.2	20.7	20.7	21.1	21.5
12H	20.3	20.7	20.8	21.1	21.6	20.3	20.7	20.8	21.1	21.6
12H 4H	20.0	20.6	20.4	20.9	21.3	20.1	20.6	20.5	21.0	21.4
6H	20.1	20.5	20.6	21.0	21.4	20.2	20.6	20.6	21.0	21.5
8H	20.2	20.6	20.7	21.0	21.5	20.2	20.6	20.7	21.0	21.5
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 2.8 / - 6.0					+ 2.8 / - 6.2				
1.5H	+ 3.8 / - 6.5					+ 3.7 / - 6.8				
2.0H	+ 6.7 / - 2.5					+ 6.9 / - 2.7				

CIE Pub.117, 2585 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 3.3)
 Area: 0.00785 m2

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2024-03-07

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

UTILIZATION FACTORS TABLE

Test:U:230.00V I:0.1319A P:29.836W PF:0.9838 Freq:49.99Hz Lamp Flux:2584.82x1 lm		
NAME: DL3082-WHTC30C01	TYPE:	WEIGHT:
SPEC.: white RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 100mm	Shielding Angle:

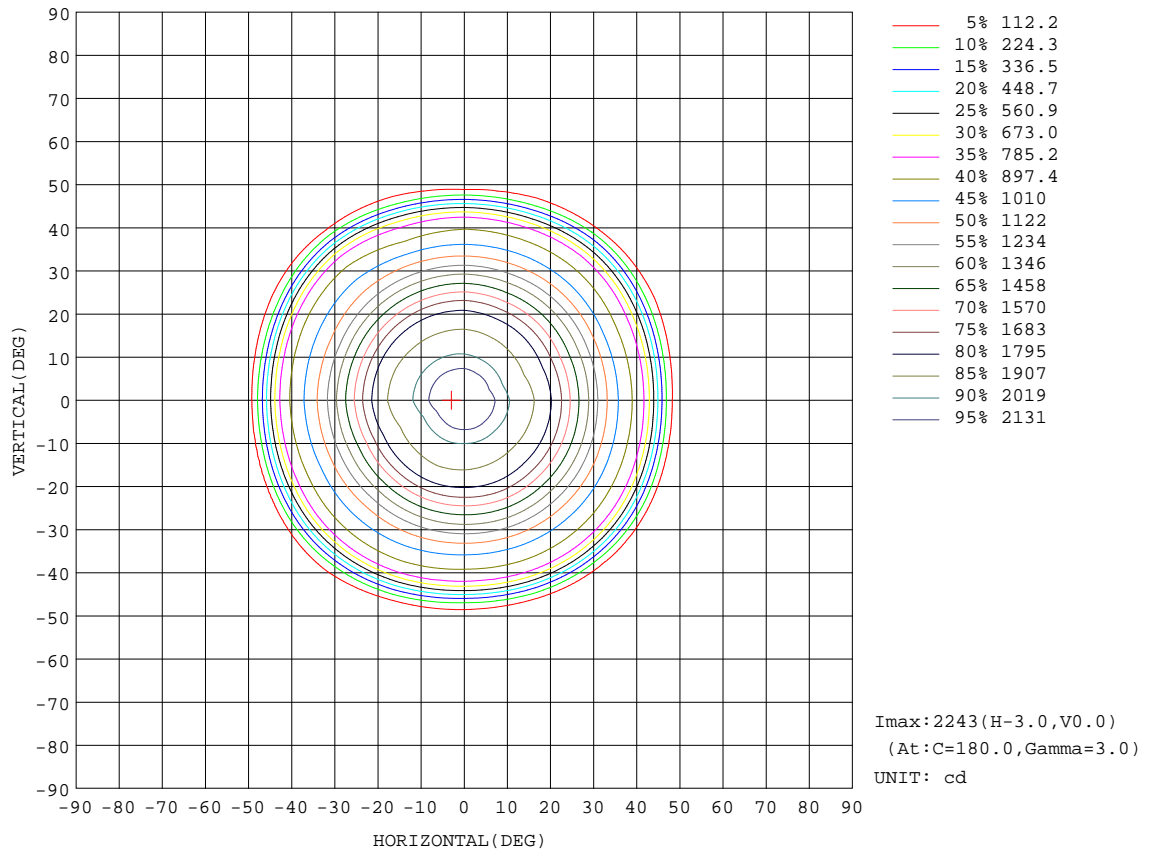
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	80	73	68	80	73	68	79	72	68	64
0.80	89	82	77	88	81	77	87	81	77	72
1.00	95	88	84	94	88	83	92	88	83	78
1.25	100	93	89	98	93	89	96	92	88	83
1.50	103	97	93	101	96	93	99	95	92	87
2.00	106	101	98	105	100	97	102	98	95	90
2.50	108	104	100	107	103	99	103	100	98	91
3.00	110	106	103	108	105	102	105	102	100	93
4.00	112	109	106	110	107	105	107	104	102	95
5.00	114	111	109	112	109	107	108	106	104	96
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:2024-03-07

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

ISOCANDELA DIAGRAM

Test:U:230.00V I:0.1319A P:29.836W PF:0.9838 Freq:49.99Hz Lamp Flux:2584.82x1 lm		
NAME: DL3082-WHTC30C01	TYPE:	WEIGHT:
SPEC.: white RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 100mm	Shielding Angle:



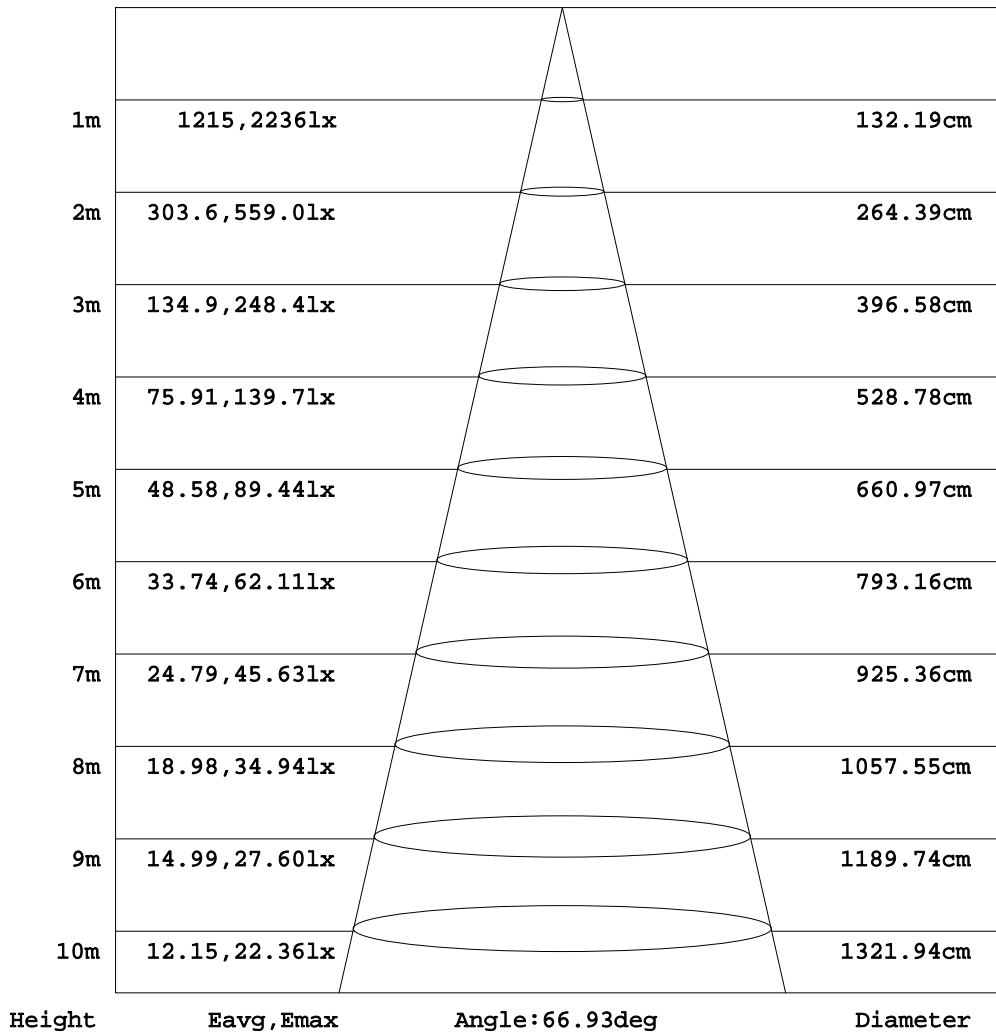
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2024-03-07

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

AAI Figure

Test:U:230.00V I:0.1319A P:29.836W PF:0.9838 Freq:49.99Hz Lamp Flux:2584.82x1 lm		
NAME: DL3082-WHTC30C01	TYPE:	WEIGHT:
SPEC.: white RA90 2700K+6000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 100mm	Shielding Angle:

Flux out:1736 lm



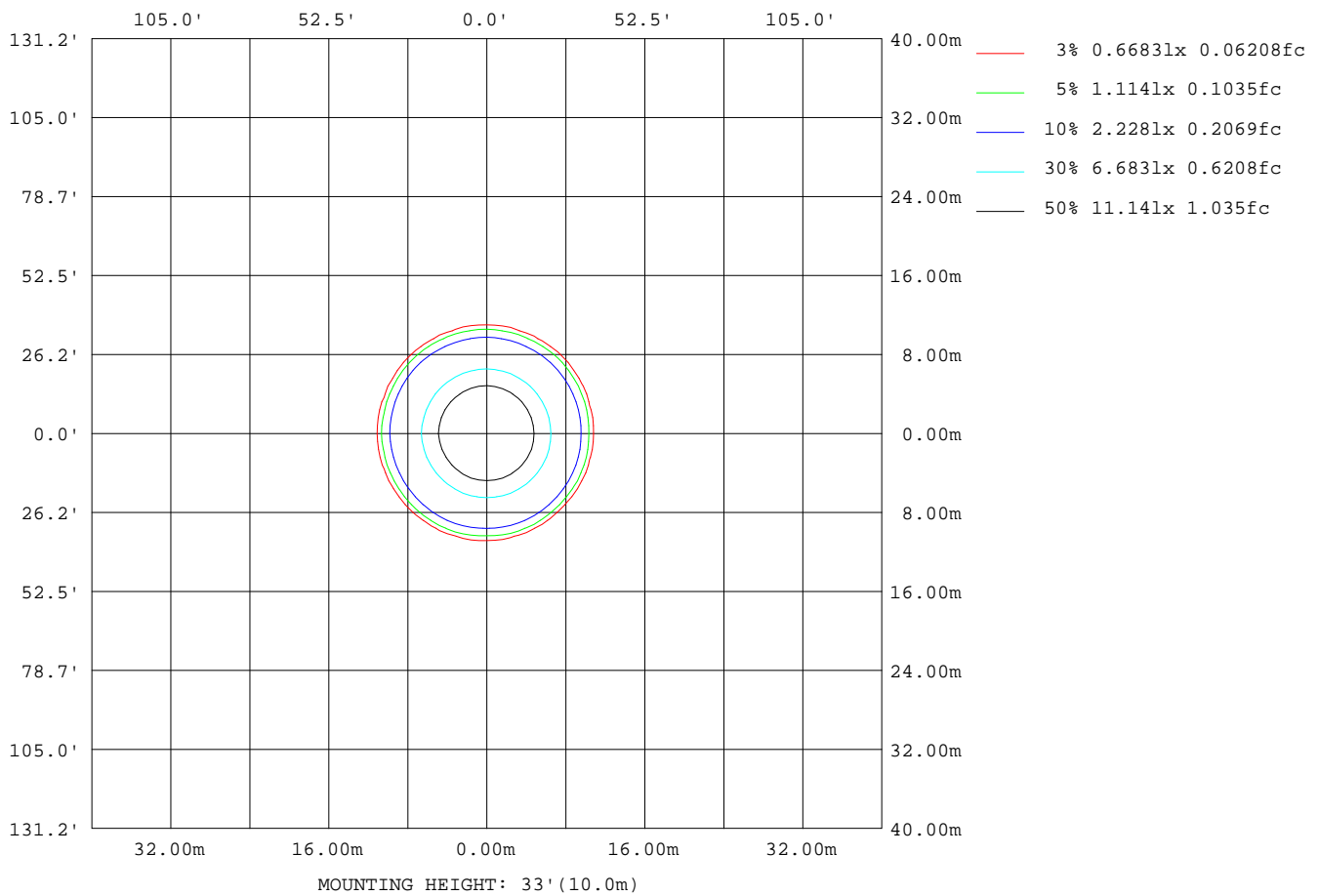
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2024-03-07

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

ISOLUX DIAGRAM

Test:U:230.00V I:0.1319A P:29.836W PF:0.9838 Freq:49.99Hz Lamp Flux:2584.82x1 lm		
NAME: DL3082-WHTC30C01	TYPE:	WEIGHT:
SPEC.: white RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 100mm	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2024-03-07

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

LED Avg.L Report

Test:U:230.00V I:0.1319A P:29.836W PF:0.9838 Freq:49.99Hz Lamp Flux:2584.82x1 lm		
NAME: DL3082-WHTC30C01	TYPE:	WEIGHT:
SPEC.: white RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 100mm	Shielding Angle:

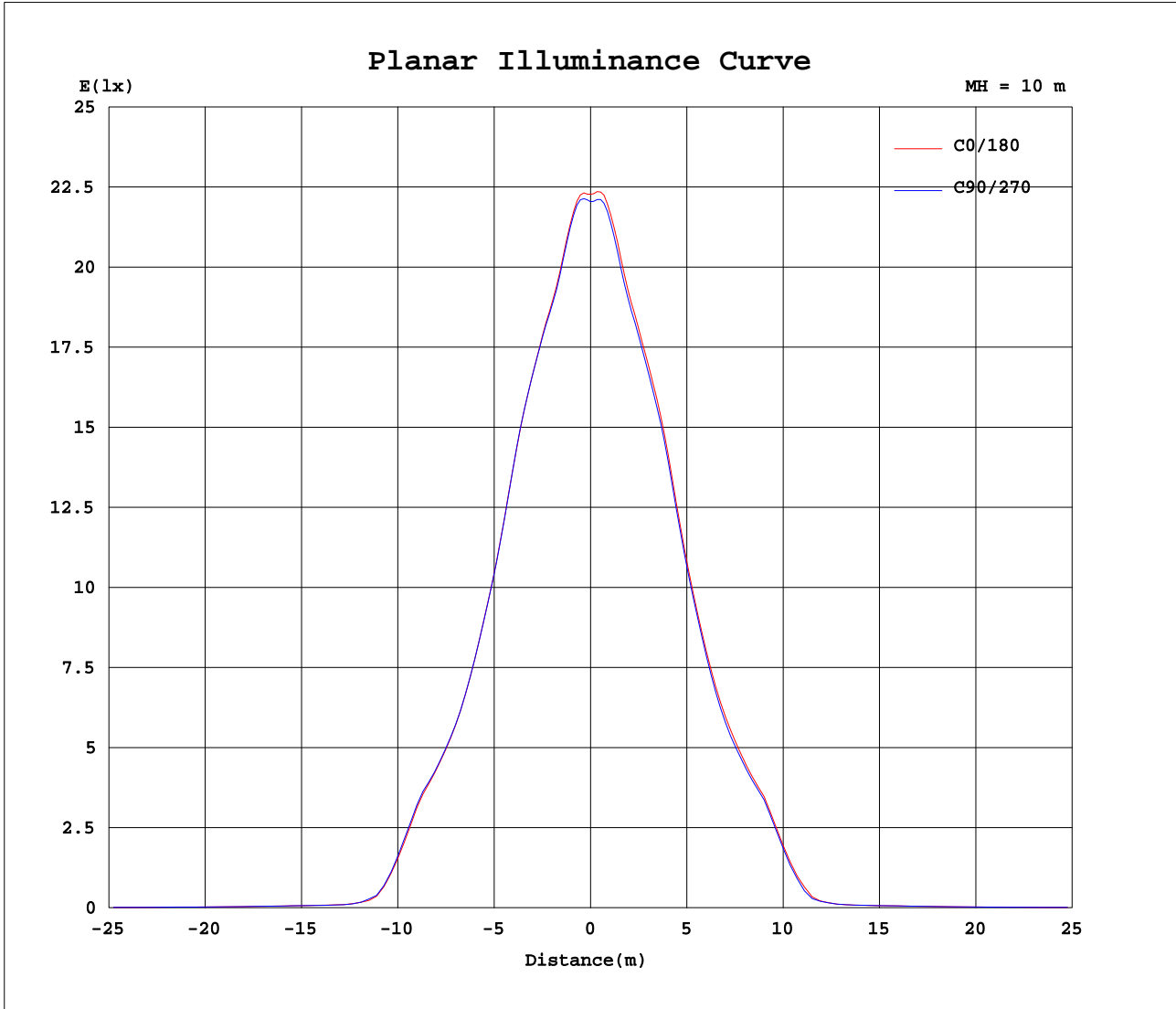
AvgL	cd/m2
L_0~180(65)av	9255
L_0~180(75)av	8998
L_0~180(85)av	14419
L_90~270(65)av	9158
L_90~270(75)av	8935
L_90~270(85)av	14323
L_45(65)av	9225
L_45(75)av	8966
L_45(85)av	14334

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2024-03-07

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-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: 2024-03-07

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

