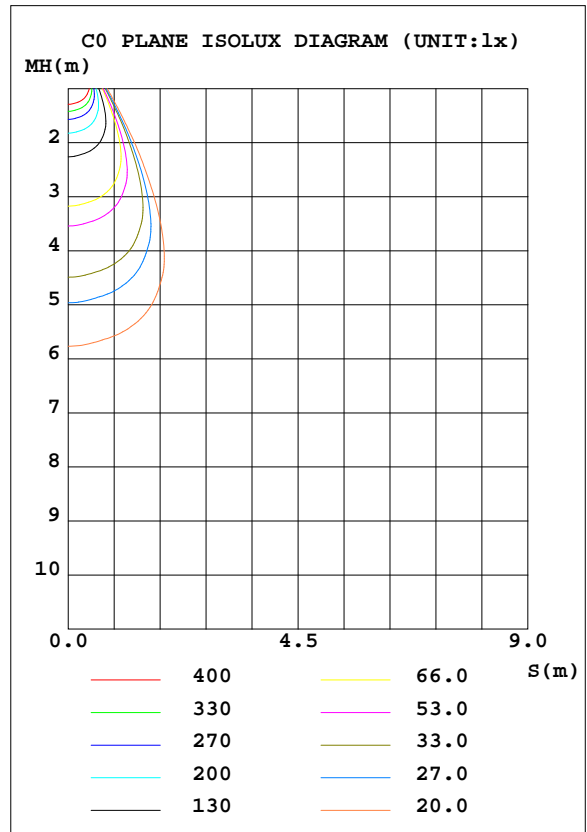
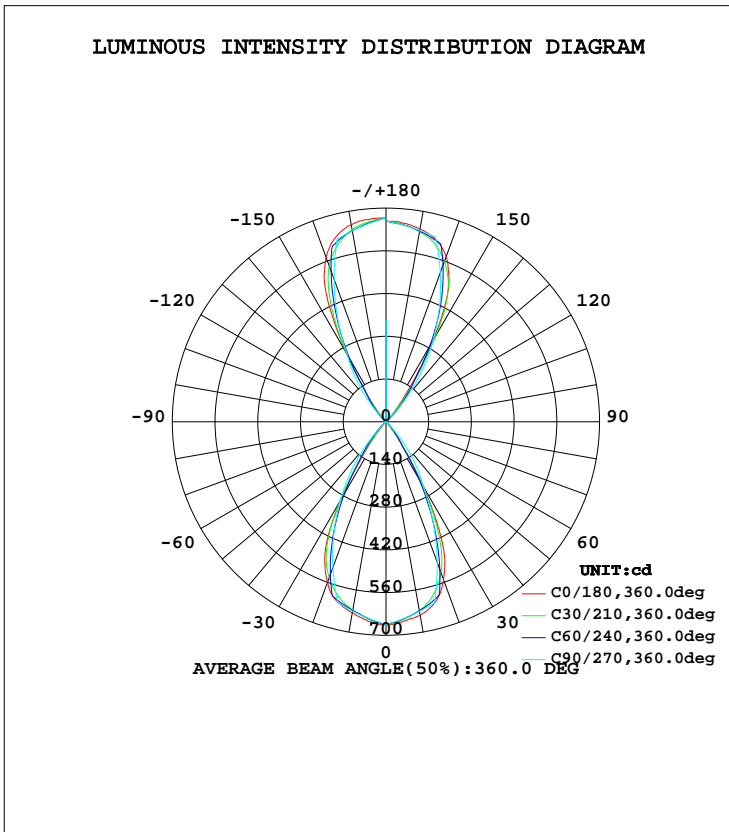


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:240.7V I:0.0420A P:9.640W PF:0.9440 Lamp Flux:1053.53x1 lm		
NAME: UDL10W-NW-B	TYPE:10W	WEIGHT:
DIM.:	SPEC.:4000K	SERIAL No.:1
MFR.:	SUR.:0.02	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 109.29 lm/W			
MODEL	UDL10W-NW-B	I _{max} (cd)	668.3	S/MH(C0/180)	0.81
NOMINAL POWER(W)	10	LOR(%)	100.0	S/MH(C90/270)	0.81
RATED VOLTAGE(V)	240	TOTAL FLUX(lm)	1053.5	η UP, DN(C0-180)	26.1, 23.8
NOMINAL FLUX(lm)	1053.53	CIE CLASS	DIFFUSE	η UP, DN(C180-360)	24.9, 25.2
LAMPS INSIDE	1	η up(%)	51.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	240.7	η down(%)	49.0	CIBSE SHR MAX	0.85



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMAN
 Test Date:2020-06-20

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:9.443m [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
5	656.8	649.3	648.1	648.4	656.4	648.2	647.5	649.1	0- 5	15.68	15.68	1.49,1.49
10	644.2	627.3	631.2	624.9	635.6	626.6	630.1	627.6	5- 10	45.72	61.40	5.83,5.83
15	614.9	595.7	614.3	592.6	612.0	599.9	612.7	601.1	10- 15	73.13	134.5	12.8,12.8
20	551.9	545.2	491.0	548.1	560.9	560.5	508.8	558.3	15- 20	93.81	228.3	21.7,21.7
25	437.8	405.8	367.8	421.1	473.5	438.4	405.0	428.4	20- 25	99.08	327.4	31.1,31.1
30	242.5	243.5	244.5	273.0	302.2	292.9	301.1	273.7	25- 30	85.01	412.4	39.1,39.1
35	80.40	99.45	165.4	128.6	123.1	143.3	203.6	123.1	30- 35	55.25	467.7	44.4,44.4
40	15.99	15.15	86.23	29.21	31.68	35.20	106.0	25.01	35- 40	27.94	495.6	47.47
45	7.330	7.952	7.108	12.82	8.944	13.51	8.474	11.26	40- 45	11.20	506.8	48.1,48.1
50	5.114	5.056	5.525	6.499	5.795	6.211	6.499	6.201	45- 50	3.342	510.2	48.4,48.4
55	3.536	3.278	3.941	3.839	4.074	3.627	4.524	3.874	50- 55	2.033	512.2	48.6,48.6
60	2.317	2.233	2.358	2.685	2.744	2.542	2.549	2.691	55- 60	1.467	513.7	48.8,48.8
65	1.373	1.308	1.653	1.633	1.679	1.572	1.833	1.687	60- 65	0.9789	514.6	48.8,48.8
70	0.5169	0.6648	0.9494	0.8264	0.7109	0.8060	1.117	0.9420	65- 70	0.5970	515.2	48.9,48.9
75	0.0126	0.3254	0.2453	0.3515	0.0944	0.3331	0.4009	0.5888	70- 75	0.2785	515.5	48.9,48.9
80	0	0.0647	0.1636	0	0	0	0.2673	0.3432	75- 80	0.0914	515.6	48.9,48.9
85	0	0.1003	0.0818	0	0	0	0.1336	0.3317	80- 85	0.0561	515.7	48.9,48.9
90	0	0.1376	0	0	0	0	0	0.3288	85- 90	0.0568	515.7	49,49
95	0	0.3817	0.2493	0	0	0.0182	0.2074	0.4167	90- 95	0.0884	515.8	49,49
100	0	0.6232	0.4986	0	0	0.0432	0.4149	0.5154	95-100	0.1329	515.9	49,49
105	0.2105	1.149	0.7480	0.3587	0.1254	0.3918	0.6223	0.7428	100-105	0.2105	516.1	49,49
110	0.8328	1.821	1.583	0.7856	0.7282	0.8493	1.338	1.056	105-110	0.4371	516.6	49,49
115	1.841	2.731	2.417	1.592	1.711	1.644	2.054	1.755	110-115	0.7814	517.4	49.1,49.1
120	2.973	3.915	3.252	2.706	2.859	2.724	2.770	2.841	115-120	1.202	518.6	49.2,49.2
125	4.371	5.205	6.686	3.876	4.244	3.939	5.447	4.013	120-125	1.781	520.3	49.4,49.4
130	6.582	10.96	10.12	7.751	6.050	7.740	8.124	8.787	125-130	2.535	522.9	49.6,49.6
135	14.33	24.01	13.55	17.18	11.01	16.21	10.80	19.88	130-135	4.560	527.4	50.1,50.1
140	44.06	52.47	111.9	36.84	32.14	33.93	92.02	41.21	135-140	14.05	541.5	51.4,51.4
145	128.3	162.1	210.3	130.5	99.94	123.3	173.2	140.3	140-145	31.77	573.3	54.4,54.4
150	307.6	309.9	308.6	276.8	261.6	265.5	254.4	287.8	145-150	58.58	631.8	60,60
155	486.8	456.1	414.6	432.5	463.5	425.8	376.0	437.0	150-155	88.08	719.9	68.3,68.3
160	576.2	577.3	520.6	564.2	573.8	558.8	497.6	566.8	155-160	101.8	821.8	78,78
165	621.1	611.6	626.5	607.6	628.9	606.4	619.1	607.7	160-165	95.72	917.5	87.1,87.1
170	641.7	632.7	637.1	633.7	656.0	637.5	635.5	635.3	165-170	74.22	991.7	94.1,94.1
175	653.1	648.9	647.6	649.0	665.3	655.3	651.9	654.8	170-175	46.13	1038	98.5,98.5
180	658.2	658.2	658.2	658.2	668.3	668.3	668.3	668.3	175-180	15.70	1054	100,100
DEG	LUMINOUS INTENSITY:cd								UNIT:lm			

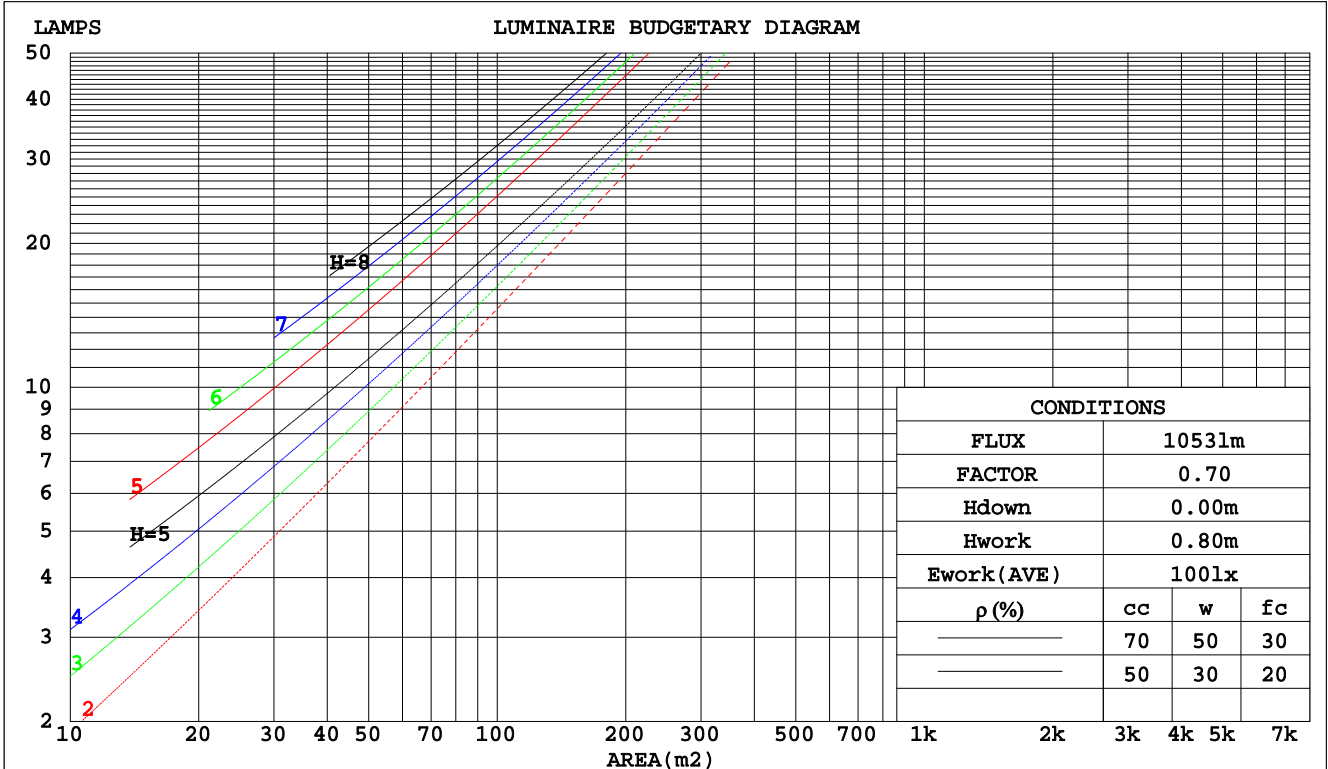
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMAN
 Test Date:2020-06-20

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:9.443m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:240.7V I:0.0420A P:9.640W PF:0.9440 Lamp Flux:1053.53x1 lm		
NAME: UDL10W-NW-B	TYPE:10W	WEIGHT:
DIM.:	SPEC.:4000K	SERIAL No.:1
MFR.:	SUR.:0.02	PROTECTION 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	1.07	1.07	1.07	.98	.98	.98	.83	.83	.83	.68	.68	.68	.55	.55	.55	.49
1.0	.97	.94	.91	.89	.87	.85	.76	.74	.73	.64	.63	.62	.52	.52	.51	.46
2.0	.88	.83	.79	.82	.78	.74	.70	.67	.65	.60	.58	.56	.50	.49	.48	.43
3.0	.80	.74	.70	.75	.70	.66	.65	.61	.58	.56	.53	.51	.47	.46	.44	.41
4.0	.73	.67	.62	.69	.63	.59	.60	.56	.53	.52	.49	.47	.45	.43	.41	.38
5.0	.67	.61	.56	.63	.58	.54	.56	.52	.48	.49	.46	.44	.42	.40	.39	.36
6.0	.62	.56	.51	.59	.53	.49	.52	.48	.45	.46	.43	.40	.40	.38	.36	.34
7.0	.58	.51	.47	.55	.49	.45	.49	.44	.41	.43	.40	.38	.38	.36	.34	.32
8.0	.54	.47	.43	.51	.45	.41	.46	.41	.38	.41	.37	.35	.36	.34	.32	.30
9.0	.50	.44	.40	.48	.42	.38	.43	.39	.36	.38	.35	.33	.34	.32	.30	.28
10.0	.47	.41	.37	.45	.39	.36	.40	.36	.33	.36	.33	.31	.33	.30	.29	.27



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMAN
 Test Date: 2020-06-20

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity: 65.0%
 Test Distance: 9.443m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:240.7V I:0.0420A P:9.640W PF:0.9440 Lamp Flux:1053.53x1 lm		
NAME: UDL10W-NW-B	TYPE:10W	WEIGHT:
DIM.:	SPEC.:4000K	SERIAL No.:1
MFR.:	SUR.:0.02	PROTECTION 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	.214	.122	.039	.192	.110	.035	.150	.086	.028	.112	.065	.021	.077	.045	.014	
2.0	.200	.110	.034	.180	.099	.031	.142	.079	.025	.107	.060	.019	.075	.043	.013	
3.0	.187	.099	.030	.168	.090	.027	.134	.073	.022	.102	.056	.017	.073	.040	.012	
4.0	.175	.091	.027	.158	.083	.024	.127	.067	.020	.098	.052	.016	.070	.038	.012	
5.0	.164	.084	.024	.149	.076	.022	.120	.063	.018	.093	.049	.015	.068	.036	.011	
6.0	.155	.078	.022	.141	.071	.020	.114	.058	.017	.089	.046	.014	.066	.035	.010	
7.0	.146	.072	.020	.133	.066	.019	.108	.055	.016	.085	.044	.013	.063	.033	.010	
8.0	.138	.068	.019	.126	.062	.018	.103	.052	.015	.081	.041	.012	.061	.031	.009	
9.0	.131	.063	.018	.120	.058	.016	.098	.049	.014	.078	.039	.011	.059	.030	.009	
10.0	.125	.060	.017	.114	.055	.015	.094	.046	.013	.075	.037	.011	.057	.029	.008	

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	.579	.579	.579	.495	.495	.495	.338	.338	.338	.194	.194	.194	.062	.062	.062	
1.0	.566	.549	.534	.484	.471	.460	.331	.324	.318	.191	.188	.185	.061	.060	.060	
2.0	.555	.527	.504	.475	.454	.436	.326	.314	.304	.188	.183	.178	.060	.059	.058	
3.0	.545	.511	.483	.468	.441	.419	.321	.306	.294	.185	.179	.173	.060	.058	.057	
4.0	.537	.498	.468	.461	.430	.407	.317	.300	.286	.183	.176	.169	.059	.057	.056	
5.0	.530	.488	.457	.455	.422	.398	.314	.295	.281	.182	.173	.167	.059	.057	.055	
6.0	.524	.480	.449	.450	.416	.391	.310	.291	.277	.180	.171	.164	.058	.056	.054	
7.0	.518	.474	.443	.445	.410	.386	.308	.288	.273	.179	.170	.163	.058	.056	.054	
8.0	.512	.468	.438	.441	.406	.382	.305	.285	.271	.178	.168	.161	.057	.055	.053	
9.0	.508	.464	.434	.437	.402	.379	.303	.283	.269	.176	.167	.160	.057	.055	.053	
10.0	.503	.460	.431	.434	.399	.376	.301	.281	.267	.175	.166	.159	.057	.055	.053	

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMAN
 Test Date:2020-06-20

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:9.443m [K=1.0000]
 Remarks:

Uncorrected UGR Table

Test:U:240.7V I:0.0420A P:9.640W PF:0.9440 Lamp Flux:1053.53x1 lm										
NAME: UDL10W-NW-B					TYPE:10W			WEIGHT:		
DIM.:					SPEC.:4000K			SERIAL No.:1		
MFR.:					SUR.:0.02			PROTECTION 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	13.8	13.9	14.6	15.6	15.9	16.6	16.7	17.4	18.4
3H	12.8	13.4	13.7	14.3	15.3	15.6	16.2	16.5	17.1	18.1
4H	12.6	13.2	13.5	14.1	15.2	15.4	16.0	16.3	16.9	18.0
6H	12.4	13.0	13.4	13.9	15.0	15.2	15.8	16.2	16.7	17.8
8H	12.3	12.9	13.3	13.8	14.9	15.2	15.7	16.1	16.6	17.7
12H	12.3	12.8	13.2	13.7	14.8	15.1	15.6	16.0	16.5	17.6
4H 2H	12.6	13.2	13.5	14.1	15.2	15.4	16.0	16.3	16.9	18.0
3H	12.3	12.8	13.2	13.7	14.9	15.1	15.6	16.0	16.5	17.7
4H	12.1	12.6	13.1	13.5	14.7	14.9	15.3	15.9	16.3	17.5
6H	11.9	12.3	12.9	13.3	14.5	14.7	15.1	15.7	16.1	17.3
8H	11.8	12.2	12.8	13.2	14.4	14.6	15.0	15.6	15.9	17.2
12H	11.7	12.1	12.7	13.0	14.3	14.5	14.9	15.5	15.8	17.1
8H 4H	11.8	12.2	12.8	13.2	14.4	14.6	15.0	15.6	15.9	17.2
6H	11.6	11.9	12.7	12.9	14.2	14.4	14.7	15.4	15.7	17.0
8H	11.5	11.8	12.6	12.8	14.1	14.3	14.6	15.4	15.6	16.9
12H	11.4	11.7	12.5	12.7	14.0	14.2	14.4	15.3	15.5	16.8
12H 4H	11.7	12.1	12.7	13.0	14.3	14.5	14.8	15.5	15.8	17.1
6H	11.5	11.8	12.6	12.8	14.1	14.3	14.6	15.4	15.6	16.9
8H	11.4	11.7	12.5	12.7	14.0	14.2	14.4	15.3	15.5	16.8
Variations with the observer position at spacings:										
S = 1.0H	+ 4.3 / - 6.2					+ 4.6 / -12.1				
1.5H	+ 6.6 / - 4.7					+ 7.3 / -10.6				
2.0H	+ 2.6 / - 2.8					+ 1.9 / - 2.6				

CIE Pub.117 Corrected 1054 lm Total Lamp Luminous Flux.(8log(F/F0) = 0.2)

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMAN
 Test Date:2020-06-20

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:9.443m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:240.7V I:0.0420A P:9.640W PF:0.9440 Lamp Flux:1053.53x1 lm		
NAME: UDL10W-NW-B	TYPE:10W	WEIGHT:
DIM.:	SPEC.:4000K	SERIAL No.:1
MFR.:	SUR.:0.02	PROTECTION ANGLE:

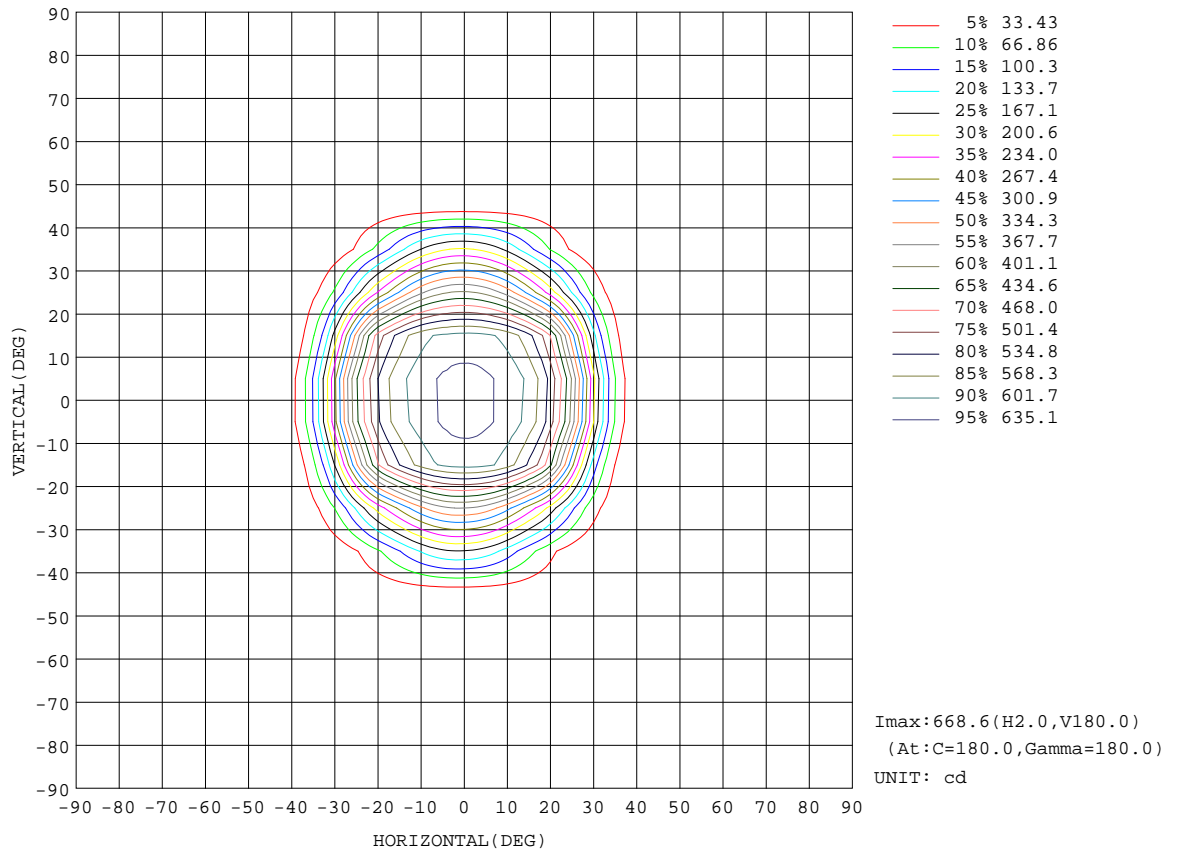
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	60	52	47	57	50	46	52	47	44	37
0.80	68	60	55	64	57	53	58	53	50	41
1.00	73	65	60	69	62	58	62	57	54	43
1.25	79	71	66	74	67	63	65	61	58	44
1.50	83	75	70	77	71	67	68	64	61	46
2.00	88	81	76	82	76	72	71	67	64	46
2.50	91	85	80	85	80	76	73	70	67	47
3.00	93	88	84	87	82	79	74	72	69	47
4.00	97	92	89	90	86	83	77	74	72	48
5.00	99	95	92	91	89	86	78	76	74	49
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMAN
 Test Date:2020-06-20

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:9.443m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:240.7V I:0.0420A P:9.640W PF:0.9440 Lamp Flux:1053.53x1 lm		
NAME: UDL10W-NW-B	TYPE:10W	WEIGHT:
DIM.:	SPEC.:4000K	SERIAL No.:1
MFR.:	SUR.:0.02	PROTECTION ANGLE:

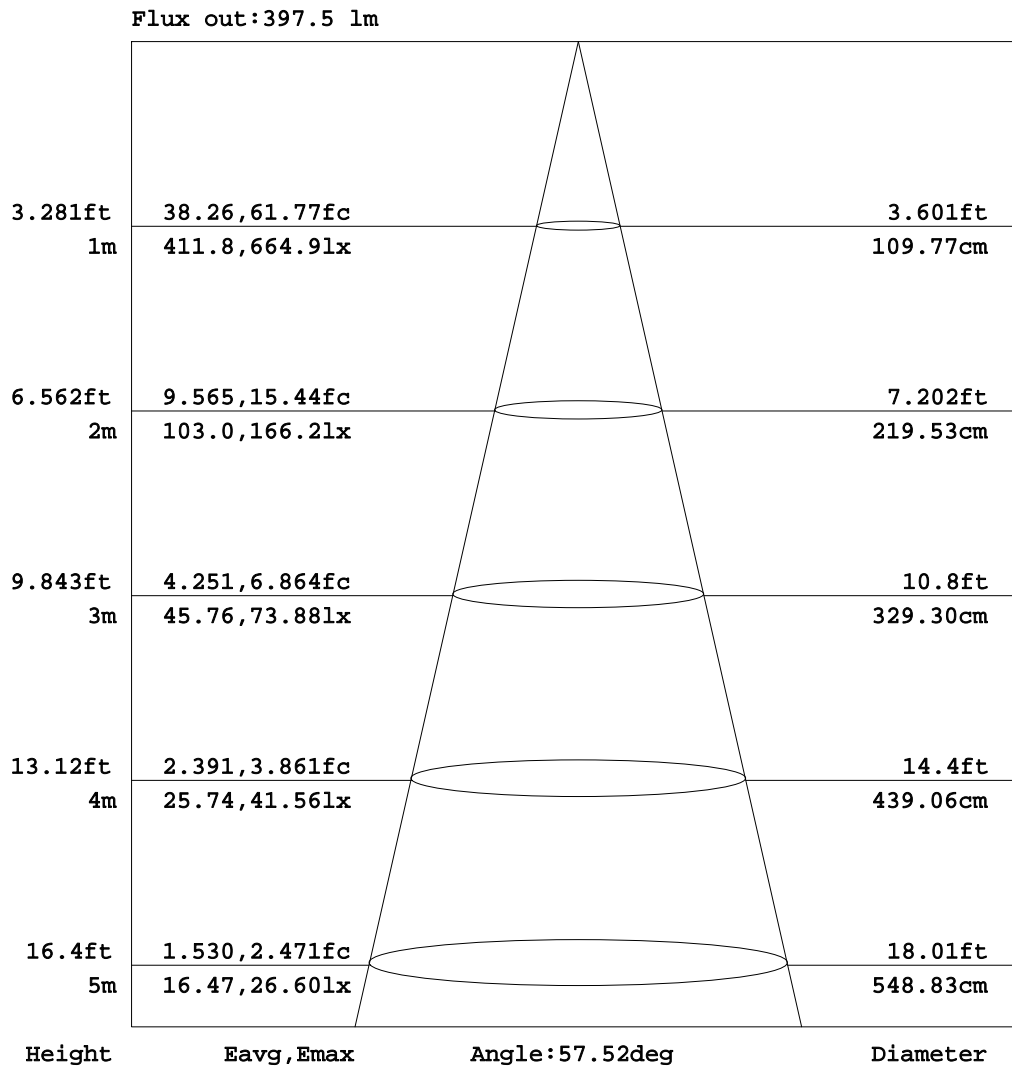


C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMAN
 Test Date:2020-06-20

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:9.443m [K=1.0000]
 Remarks:

AAI Figure

Test:U:240.7V I:0.0420A P:9.640W PF:0.9440 Lamp Flux:1053.53x1 lm		
NAME: UDL10W-NW-B	TYPE:10W	WEIGHT:
DIM.:	SPEC.:4000K	SERIAL No.:1
MFR.:	SUR.:0.02	PROTECTION ANGLE:



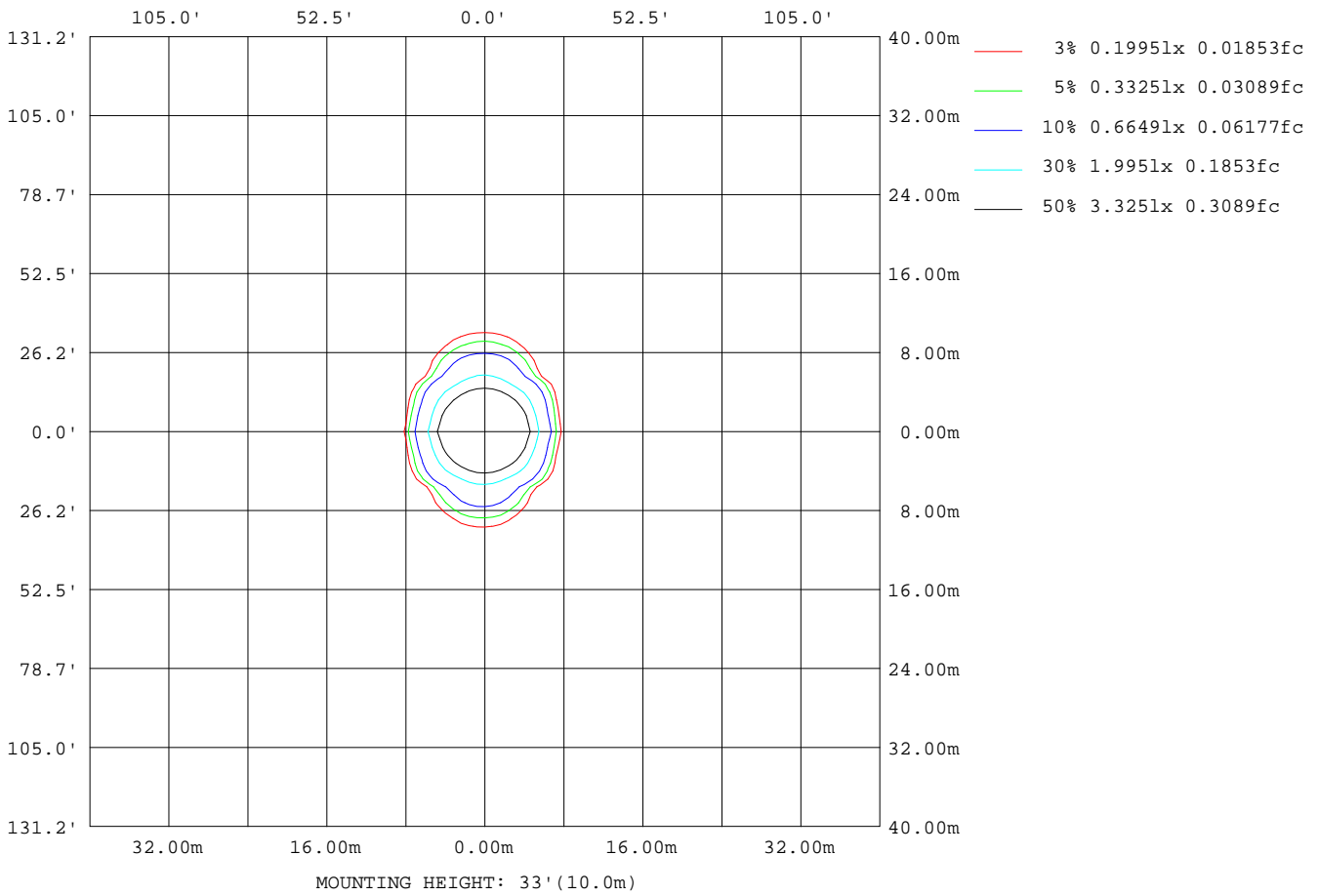
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMAN
 Test Date:2020-06-20

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:9.443m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

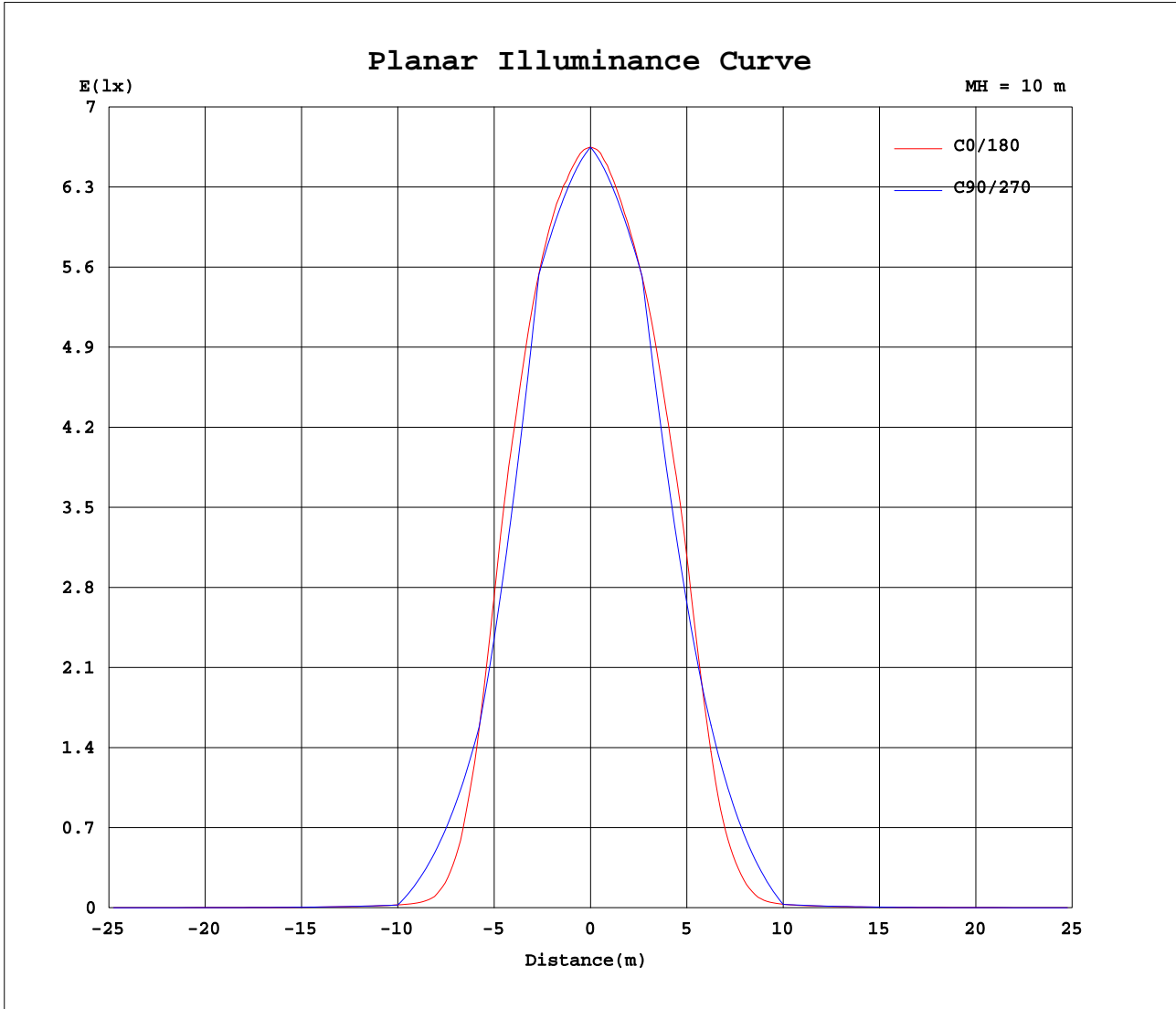
Test:U:240.7V I:0.0420A P:9.640W PF:0.9440 Lamp Flux:1053.53x1 lm		
NAME: UDL10W-NW-B	TYPE:10W	WEIGHT:
DIM.:	SPEC.:4000K	SERIAL No.:1
MFR.:	SUR.:0.02	PROTECTION ANGLE:



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMAN
 Test Date:2020-06-20

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:9.443m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMAN
 Test Date: 2020-06-20

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity: 65.0%
 Test Distance: 9.443m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:240.7V I:0.0420A P:9.640W PF:0.9440 Lamp Flux:1053.53x1 lm		
NAME: UDL10W-NW-B	TYPE:10W	WEIGHT:
DIM.:	SPEC.:4000K	SERIAL No.:1
MFR.:	SUR.:0.02	PROTECTION ANGLE:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	665	665	665	665	665	665	665	665	665	665	665	665	665	665	665	665	665	665	665
5	657	655	654	653	652	651	651	650	650	649	649	649	649	649	648	648	648	648	648
10	644	641	637	635	632	630	629	628	628	627	628	628	629	630	631	631	631	631	631
15	615	608	602	597	594	592	591	592	593	596	599	602	606	609	611	613	614	615	614
20	552	540	530	525	523	525	527	531	536	545	541	526	516	507	501	496	493	491	491
25	438	416	401	393	392	397	411	432	421	406	390	378	369	365	363	363	365	366	368
30	243	223	212	209	212	223	237	244	246	243	235	223	215	214	218	225	233	240	244
35	80.4	72.2	68.7	69.5	73.5	80.5	90.7	100	104	99.5	86.9	73.3	88.0	106	125	141	153	161	165
40	16.0	14.9	14.7	15.2	15.8	20.4	26.0	29.0	23.9	15.1	23.2	33.6	46.4	57.3	67.2	75.5	81.2	84.5	86.2
45	7.33	7.10	7.06	7.16	7.20	7.47	7.93	7.06	7.16	7.95	10.1	14.5	18.6	21.1	20.4	17.2	12.6	8.62	7.11
50	5.11	4.94	4.94	4.97	4.89	4.85	4.83	4.88	4.95	5.06	5.24	5.25	4.89	5.04	5.19	5.27	5.36	5.44	5.52
55	3.54	3.41	3.46	3.41	3.35	3.35	3.35	3.35	3.32	3.28	3.38	3.48	3.59	3.67	3.75	3.80	3.84	3.89	3.94
60	2.32	2.25	2.26	2.21	2.20	2.21	2.16	2.15	2.19	2.23	2.33	2.36	2.40	2.38	2.38	2.35	2.34	2.35	2.36
65	1.37	1.30	1.25	1.30	1.22	1.22	1.28	1.29	1.31	1.31	1.33	1.37	1.46	1.48	1.52	1.56	1.60	1.64	1.65
70	0.52	0.47	0.46	0.45	0.44	0.50	0.57	0.56	0.57	0.66	0.73	0.86	0.90	0.90	0.90	0.91	0.93	0.94	0.95
75	0.01	0.00	0.01	0.02	0.06	0.07	0.12	0.21	0.29	0.33	0.33	0.39	0.37	0.33	0.29	0.27	0.27	0.25	0.25
80	0.00	0.00	0.00	0.00	0.01	0.01	0.05	0.06	0.06	0.06	0.08	0.13	0.14	0.13	0.13	0.14	0.16	0.16	0.16
85	0.00	0.00	0.01	0.04	0.07	0.08	0.08	0.08	0.10	0.10	0.09	0.09	0.10	0.07	0.07	0.07	0.08	0.08	0.08
90	0.00	0.51	0.34	0.34	0.33	0.25	0.17	0.15	0.15	0.14	0.10	0.05	0.05	0.01	0.00	0.00	0.00	0.00	0.00
95	0.00	0.25	0.38	0.40	0.43	0.42	0.40	0.39	0.41	0.38	0.36	0.34	0.34	0.31	0.30	0.29	0.29	0.29	0.25
100	0.00	0.00	0.47	0.59	0.62	0.68	0.69	0.68	0.67	0.62	0.63	0.63	0.63	0.61	0.60	0.58	0.58	0.58	0.50
105	0.21	0.21	0.38	0.88	1.00	1.04	1.07	1.15	1.15	1.15	1.16	1.14	1.11	1.05	0.99	0.93	0.89	0.87	0.75
110	0.83	0.82	0.85	1.13	1.50	1.68	1.76	1.73	1.68	1.82	1.86	1.87	1.92	1.90	1.86	1.82	1.78	1.72	1.58
115	1.84	1.82	1.85	1.89	2.18	2.48	2.67	2.68	2.69	2.73	2.68	2.65	2.74	2.75	2.74	2.70	2.67	2.57	2.42
120	2.97	2.95	3.03	3.03	3.11	3.39	3.63	3.79	3.85	3.92	3.94	4.01	4.07	4.08	4.03	3.90	3.72	3.45	3.25
125	4.37	4.32	4.44	4.44	4.52	4.60	4.87	5.21	5.50	5.20	5.33	5.53	5.79	6.07	6.36	6.65	6.86	6.70	6.69
130	6.58	6.48	6.63	7.02	7.29	7.47	7.04	8.07	9.49	11.0	11.6	9.65	7.75	8.35	8.92	9.56	10.1	9.95	10.1
135	14.3	13.8	14.1	15.3	16.5	17.9	18.8	15.6	18.9	24.0	30.9	36.4	38.4	38.4	34.6	28.0	21.1	15.3	13.6
140	44.1	41.3	41.3	44.3	50.0	55.0	58.9	60.6	56.6	52.5	65.5	77.0	89.4	101	109	113	114	113	112
145	128	122	122	126	135	147	158	167	167	162	150	141	159	178	193	204	209	211	210
150	308	292	286	288	298	315	327	327	321	310	297	290	288	291	296	303	308	310	309
155	487	471	461	458	461	469	482	496	475	456	442	431	424	420	418	417	417	416	415
160	576	568	562	558	557	557	560	564	570	577	573	558	547	538	531	527	524	522	521
165	621	616	612	609	608	607	608	608	610	612	614	616	618	620	622	625	625	626	627
170	642	640	638	636	635	634	633	633	633	633	634	634	634	636	636	636	637	636	637
175	653	652	651	651	650	650	650	650	649	649	648	648	648	648	647	647	647	647	648
180	658	658	658	658	658	658	658	658	658	658	658	658	658	658	658	658	658	658	658

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMAN
 Test Date:2020-06-20

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:9.443m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:240.7V I:0.0420A P:9.640W PF:0.9440 Lamp Flux:1053.53x1 lm		
NAME: UDL10W-NW-B	TYPE:10W	WEIGHT:
DIM.:	SPEC.:4000K	SERIAL No.:1
MFR.:	SUR.:0.02	PROTECTION ANGLE:

Table--2

UNIT: cd

C(DEG) γ (DEG)	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185
0	665	665	665	665	665	665	665	665	665	665	665	665	665	665	665	665	665	665	665
5	648	648	648	648	648	648	649	649	648	648	649	649	650	651	652	654	655	656	655
10	631	631	630	629	628	627	626	625	625	624	624	624	625	626	628	630	633	636	633
15	614	613	611	609	606	603	599	596	593	591	589	589	589	592	595	600	605	612	607
20	492	495	499	504	510	518	529	543	548	542	537	534	535	535	538	543	550	561	553
25	370	372	373	375	378	384	392	405	421	441	459	443	433	428	431	439	453	473	456
30	247	247	244	241	239	241	247	260	273	283	287	287	277	266	263	268	281	302	283
35	167	165	158	147	133	116	103	117	129	136	135	130	121	113	109	108	112	123	113
40	87.8	87.8	85.9	81.2	73.7	64.4	54.6	41.3	29.2	37.1	43.8	43.7	38.1	31.0	28.3	27.8	28.7	31.7	28.6
45	8.85	13.5	19.4	24.5	27.2	27.3	23.5	17.8	12.8	9.97	9.04	11.8	10.6	9.49	8.75	8.61	8.64	8.94	8.52
50	5.57	5.60	5.61	5.55	5.48	5.40	6.64	7.16	6.50	5.98	5.86	5.76	5.80	5.73	5.75	5.72	5.67	5.79	5.59
55	3.98	4.00	4.06	4.02	4.04	3.99	3.96	3.89	3.84	3.97	4.02	4.02	3.99	4.01	3.99	4.04	3.98	4.07	3.93
60	2.39	2.41	2.54	2.55	2.62	2.72	2.71	2.69	2.69	2.64	2.61	2.68	2.69	2.70	2.72	2.74	2.70	2.74	2.65
65	1.67	1.66	1.69	1.64	1.65	1.63	1.61	1.63	1.63	1.61	1.63	1.62	1.62	1.64	1.65	1.67	1.68	1.68	1.62
70	0.96	0.97	0.98	0.97	0.96	0.96	0.95	0.90	0.83	0.71	0.76	0.78	0.77	0.70	0.74	0.72	0.73	0.71	0.70
75	0.25	0.28	0.28	0.30	0.29	0.33	0.34	0.36	0.35	0.33	0.30	0.18	0.14	0.20	0.12	0.10	0.14	0.09	0.11
80	0.16	0.17	0.15	0.13	0.09	0.07	0.03	0.00	0.00	0.01	0.05	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00
85	0.08	0.08	0.07	0.06	0.04	0.04	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	0.26	0.24	0.20	0.15	0.08	0.04	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100	0.52	0.47	0.40	0.30	0.16	0.09	0.05	0.01	0.00	0.01	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105	0.79	0.74	0.67	0.56	0.43	0.37	0.38	0.37	0.36	0.33	0.28	0.17	0.15	0.16	0.08	0.09	0.09	0.13	0.13
110	1.64	1.57	1.48	1.33	1.18	1.05	1.00	0.92	0.79	0.73	0.76	0.76	0.68	0.67	0.62	0.65	0.65	0.73	0.73
115	2.48	2.40	2.32	2.12	1.94	1.71	1.65	1.66	1.59	1.61	1.64	1.58	1.56	1.54	1.55	1.55	1.59	1.71	1.67
120	3.38	3.39	3.41	3.26	3.07	2.84	2.78	2.75	2.71	2.67	2.66	2.68	2.68	2.69	2.67	2.70	2.69	2.86	2.80
125	6.51	6.12	5.71	5.20	4.75	4.29	4.08	3.97	3.88	4.03	4.01	3.99	3.99	3.97	3.98	4.02	3.99	4.24	4.13
130	9.68	8.96	8.23	7.37	6.62	5.95	7.20	8.49	7.75	6.66	5.92	5.66	5.83	5.71	5.71	5.67	5.68	6.05	5.86
135	14.9	19.3	25.0	29.5	31.1	30.4	26.9	21.9	17.2	13.0	10.6	12.5	11.8	10.8	9.81	9.69	9.91	11.0	10.4
140	110	108	103	95.1	84.1	72.0	60.5	48.3	36.8	40.8	41.8	39.4	35.5	30.8	28.8	27.5	28.2	32.1	29.6
145	206	199	188	173	153	131	114	124	131	131	124	115	101	94.0	88.2	86.4	88.7	99.9	92.1
150	304	296	286	275	266	262	262	270	277	278	274	266	250	235	229	228	236	262	243
155	412	410	407	405	405	406	411	419	433	448	459	438	423	416	415	419	431	464	441
160	520	521	523	525	531	539	548	562	564	555	548	543	540	539	540	544	551	574	561
165	626	625	624	622	619	616	614	611	608	605	603	602	601	602	604	607	612	629	622
170	637	636	636	636	636	635	634	634	634	634	634	635	636	637	638	640	642	656	652
175	647	647	647	647	648	648	648	649	649	649	650	650	651	652	652	653	654	665	664
180	658	658	658	658	658	658	658	658	658	658	658	658	658	658	658	658	658	668	668

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMAN
 Test Date:2020-06-20

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:9.443m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:240.7V I:0.0420A P:9.640W PF:0.9440 Lamp Flux:1053.53x1 lm		
NAME: UDL10W-NW-B	TYPE:10W	WEIGHT:
DIM.:	SPEC.:4000K	SERIAL No.:1
MFR.:	SUR.:0.02	PROTECTION ANGLE:

Table--3

UNIT: cd

C(DEG) γ (DEG)	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	665	665	665	665	665	665	665	665	665	665	665	665	665	665	665	665	665	665	665
5	654	653	651	650	649	649	648	648	648	648	648	648	648	648	648	647	648	648	648
10	631	629	628	627	627	626	626	627	627	627	628	628	629	630	630	630	630	630	630
15	602	598	596	595	595	596	598	600	602	605	607	608	610	610	612	613	613	613	613
20	547	543	542	542	544	548	553	561	557	544	534	525	519	515	511	510	509	509	511
25	444	439	439	447	461	478	457	438	425	415	410	407	405	405	405	406	405	404	402
30	273	271	278	292	304	304	301	293	281	273	272	277	284	291	297	301	301	297	290
35	110	112	119	130	139	145	147	143	135	127	145	165	182	193	200	204	204	200	194
40	27.6	28.5	32.6	40.2	46.0	46.3	39.9	35.2	51.1	66.7	79.7	91.2	100	105	107	107	106	105	103
45	8.34	8.37	8.94	10.2	11.6	8.53	9.50	13.5	20.9	28.6	32.7	32.8	29.3	22.8	15.8	10.5	8.47	10.5	15.5
50	5.55	5.52	5.45	5.43	5.34	5.45	5.63	6.21	7.32	6.87	5.37	5.57	5.75	5.93	6.25	6.47	6.50	6.50	6.31
55	3.95	3.86	3.84	3.78	3.80	3.75	3.75	3.63	3.73	3.87	3.94	4.07	4.16	4.22	4.39	4.49	4.52	4.54	4.48
60	2.64	2.58	2.58	2.55	2.54	2.51	2.49	2.54	2.58	2.61	2.63	2.64	2.60	2.56	2.58	2.52	2.55	2.59	2.67
65	1.58	1.58	1.52	1.56	1.53	1.53	1.53	1.57	1.56	1.52	1.59	1.65	1.69	1.73	1.79	1.80	1.83	1.87	1.89
70	0.65	0.64	0.68	0.69	0.73	0.70	0.64	0.81	0.89	0.94	0.98	1.01	1.03	1.06	1.09	1.11	1.12	1.17	1.18
75	0.08	0.08	0.16	0.10	0.13	0.26	0.30	0.33	0.36	0.38	0.38	0.38	0.38	0.38	0.40	0.42	0.40	0.47	0.49
80	0.00	0.00	0.00	0.00	0.02	0.04	0.01	0.00	0.02	0.07	0.11	0.16	0.19	0.21	0.25	0.27	0.27	0.32	0.33
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.05	0.08	0.09	0.11	0.12	0.14	0.13	0.18	0.19
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.06
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.04	0.07	0.09	0.11	0.13	0.15	0.17	0.19	0.21	0.25	0.26
100	0.00	0.00	0.00	0.00	0.05	0.05	0.01	0.04	0.09	0.15	0.18	0.22	0.27	0.31	0.35	0.39	0.41	0.45	0.46
105	0.11	0.13	0.19	0.16	0.22	0.29	0.36	0.39	0.43	0.48	0.48	0.49	0.51	0.52	0.55	0.59	0.62	0.66	0.69
110	0.69	0.70	0.71	0.74	0.81	0.79	0.75	0.85	0.95	1.06	1.11	1.15	1.20	1.24	1.27	1.31	1.34	1.38	1.38
115	1.65	1.66	1.62	1.60	1.65	1.68	1.68	1.64	1.66	1.69	1.77	1.83	1.90	1.96	2.00	2.03	2.05	2.09	2.08
120	2.82	2.79	2.79	2.78	2.74	2.70	2.71	2.72	2.80	2.85	2.86	2.89	2.92	2.89	2.84	2.79	2.77	2.84	2.91
125	4.16	4.13	4.10	4.13	4.09	4.11	4.09	3.94	4.04	4.14	4.26	4.44	4.66	4.93	5.15	5.38	5.45	5.47	5.33
130	5.85	5.91	6.01	6.11	5.87	6.10	6.76	7.74	8.30	7.04	5.79	6.15	6.60	7.08	7.54	8.01	8.12	8.10	7.85
135	10.3	10.6	11.4	12.4	12.8	10.7	12.8	16.2	20.4	24.6	27.3	27.2	25.0	20.9	16.0	12.3	10.8	12.4	16.7
140	28.7	29.7	31.4	35.5	39.3	41.0	38.6	33.9	43.6	53.5	63.4	71.4	79.0	85.1	88.7	91.0	92.0	92.4	91.6
145	89.0	89.9	94.0	99.5	109	119	125	123	114	101	112	127	143	155	164	170	173	173	169
150	232	229	231	243	257	265	267	265	258	247	238	235	237	241	246	252	254	254	253
155	425	417	414	417	429	448	439	426	410	396	386	380	376	375	374	375	376	376	378
160	551	544	541	542	544	548	553	559	553	538	527	516	510	504	500	498	498	498	501
165	616	611	608	605	604	603	605	606	608	610	613	616	617	618	619	619	619	618	618
170	649	646	644	642	640	638	638	638	637	636	636	636	636	636	635	635	636	635	635
175	662	661	660	659	658	657	656	655	655	654	653	653	652	652	652	652	652	651	651
180	668	668	668	668	668	668	668	668	668	668	668	668	668	668	668	668	668	668	668

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMAN
 Test Date:2020-06-20

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:9.443m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:240.7V I:0.0420A P:9.640W PF:0.9440 Lamp Flux:1053.53x1 lm		
NAME: UDL10W-NW-B	TYPE:10W	WEIGHT:
DIM.:	SPEC.:4000K	SERIAL No.:1
MFR.:	SUR.:0.02	PROTECTION ANGLE:

Table--4

UNIT: cd

C(DEG) γ (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	665	665	665	665	665	665	665	665	665	665	665	665	665	665	665				
5	648	648	648	648	649	649	649	649	650	651	651	652	653	654	655				
10	630	630	629	629	628	628	628	628	629	630	631	633	635	638	641				
15	612	611	609	607	605	603	601	599	598	596	597	599	601	604	609				
20	513	516	522	531	541	553	558	550	543	538	536	533	534	537	543				
25	399	398	398	400	406	415	428	445	459	439	423	413	409	412	422				
30	280	271	262	257	258	266	274	277	275	271	256	237	226	223	228				
35	184	169	149	127	108	117	123	126	122	112	99.4	88.9	79.4	74.3	74.8				
40	99.5	92.2	81.5	68.4	54.5	38.8	25.0	32.0	36.4	33.6	27.0	20.2	17.7	15.9	15.4				
45	22.1	27.4	29.5	28.0	22.6	15.6	11.3	9.06	8.27	9.46	8.64	8.04	7.69	7.37	7.25				
50	6.16	6.04	5.86	5.68	6.66	6.80	6.20	5.75	5.58	5.48	5.37	5.29	5.29	5.17	5.04				
55	4.44	4.38	4.30	4.21	4.10	3.99	3.87	3.88	3.88	3.78	3.73	3.64	3.62	3.62	3.49				
60	2.74	2.78	2.82	2.84	2.81	2.77	2.69	2.62	2.51	2.50	2.45	2.42	2.36	2.35	2.28				
65	1.88	1.85	1.81	1.74	1.67	1.68	1.69	1.61	1.55	1.49	1.46	1.39	1.41	1.35	1.35				
70	1.19	1.20	1.20	1.18	1.16	1.06	0.94	0.76	0.78	0.75	0.67	0.58	0.54	0.54	0.50				
75	0.52	0.56	0.61	0.65	0.66	0.62	0.59	0.52	0.43	0.26	0.19	0.13	0.02	0.06	0.00				
80	0.35	0.37	0.37	0.40	0.38	0.34	0.34	0.35	0.33	0.28	0.19	0.06	0.00	0.00	0.00				
85	0.24	0.27	0.27	0.32	0.31	0.30	0.33	0.35	0.38	0.36	0.36	0.32	0.23	0.07	0.00				
90	0.13	0.17	0.17	0.24	0.26	0.26	0.33	0.37	0.47	0.47	0.54	0.64	0.71	0.74	0.84				
95	0.31	0.34	0.33	0.36	0.37	0.38	0.42	0.43	0.48	0.48	0.52	0.54	0.41	0.12	0.00				
100	0.49	0.51	0.50	0.48	0.49	0.50	0.52	0.51	0.50	0.46	0.35	0.16	0.00	0.00	0.00				
105	0.72	0.76	0.78	0.77	0.79	0.78	0.74	0.69	0.58	0.45	0.34	0.27	0.20	0.19	0.19				
110	1.38	1.39	1.38	1.32	1.27	1.20	1.06	0.92	0.95	0.94	0.81	0.76	0.76	0.78	0.79				
115	2.05	2.03	2.00	1.91	1.82	1.80	1.76	1.76	1.76	1.69	1.69	1.67	1.77	1.74	1.78				
120	2.97	3.01	3.04	3.01	2.95	2.90	2.84	2.78	2.73	2.79	2.78	2.84	2.84	2.92	2.90				
125	5.14	4.85	4.61	4.42	4.25	4.11	4.01	4.30	4.24	4.14	4.15	4.17	4.23	4.31	4.26				
130	7.45	6.87	6.34	6.00	7.60	9.30	8.79	7.72	6.75	6.19	6.67	6.63	6.43	6.34	6.35				
135	22.0	26.7	29.7	30.8	28.5	24.3	19.9	15.4	12.9	16.1	15.9	14.7	13.7	13.0	13.2				
140	89.2	84.9	77.5	70.5	62.4	51.9	41.2	47.5	51.5	51.6	47.9	43.5	39.8	38.8	39.5				
145	162	151	138	123	113	129	140	146	144	136	127	120	117	116	118				
150	249	246	246	249	258	273	288	296	297	294	284	273	269	273	284				
155	379	382	387	395	406	419	437	458	477	461	449	443	444	453	468				
160	505	512	520	531	544	560	567	560	556	553	552	554	558	563	572				
165	618	616	615	614	612	610	608	606	606	606	608	610	613	618	624				
170	635	635	635	635	635	635	635	636	637	637	639	640	643	645	648				
175	652	652	653	653	653	654	655	656	656	657	658	659	660	661	662				
180	668	668	668	668	668	668	668	668	668	668	668	668	668	668	668				

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMAN
 Test Date:2020-06-20

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:9.443m [K=1.0000]
 Remarks: