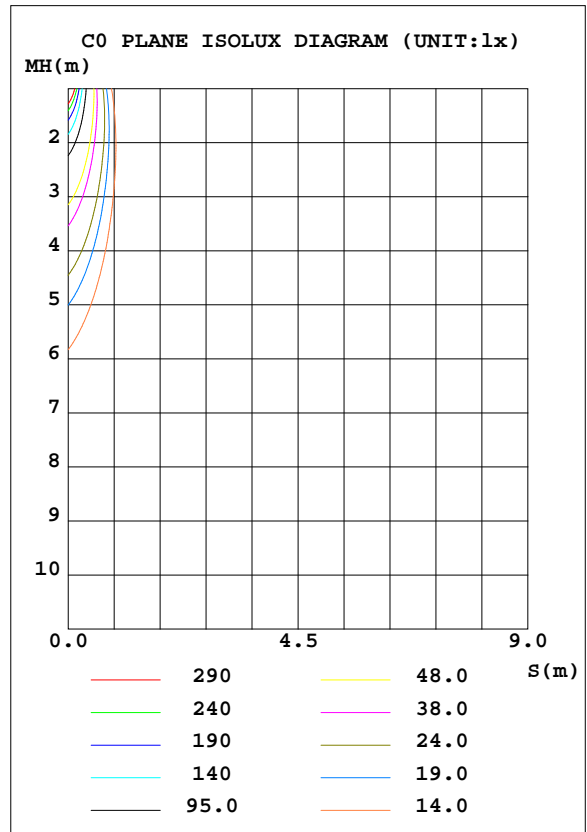
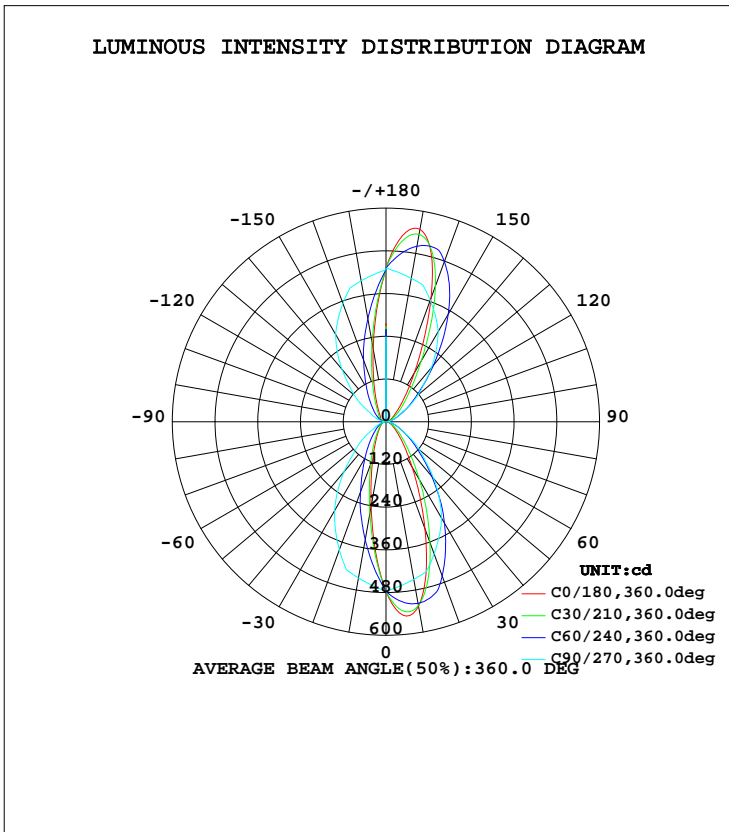


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:240.3V I:0.0440A P:9.850W PF:0.9210 Lamp Flux:965.929x1 lm		
NAME: SWL-10W-CC-W	TYPE:10W	WEIGHT:
DIM.:	SPEC.:3000K	SERIAL No.:
MFR.:	SUR.:0.0855	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 98.06 lm/W			
MODEL	SWL-10W-CC-W	I _{max} (cd)	550.5	S/MH(C0/180)	0.34
NOMINAL POWER(W)	10	LOR(%)	100.0	S/MH(C90/270)	0.98
RATED VOLTAGE(V)	240	TOTAL FLUX(lm)	965.93	η UP, DN(C0-180)	25.3, 23.8
NOMINAL FLUX(lm)	965.929	CIE CLASS	DIFFUSE	η UP, DN(C180-360)	25.1, 25.7
LAMPS INSIDE	1	η up(%)	50.4	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	240.3	η down(%)	49.6	CIBSE SHR MAX	0.65



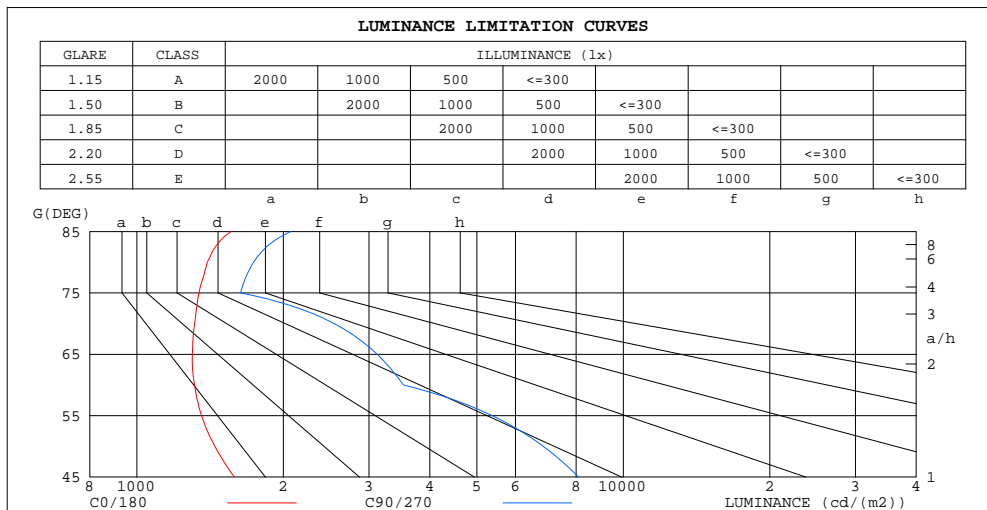
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2020-12-22

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:10.237m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	§lum,lamp
5	356.1	383.9	460.8	521.3	545.1	522.0	462.8	385.1	0- 5	11.08	11.08	1.15,1.15
10	241.5	291.8	445.5	525.5	526.3	526.1	449.6	294.2	5- 10	30.91	41.99	4.35,4.35
15	159.5	215.3	430.2	487.0	436.8	487.0	436.3	218.4	10- 15	45.50	87.49	9.06,9.06
20	107.7	158.0	383.1	420.1	320.4	419.3	395.2	161.5	15- 20	53.54	141.0	14.6,14.6
25	75.44	113.5	336.1	327.3	219.8	329.0	354.0	117.5	20- 25	54.97	196.0	20.3,20.3
30	54.54	82.81	289.0	243.2	146.8	247.0	312.9	86.87	25- 30	52.35	248.3	25.7,25.7
35	40.92	61.84	236.4	177.0	98.87	181.9	260.9	65.67	30- 35	47.45	295.8	30.6,30.6
40	31.94	47.31	183.8	127.7	67.89	133.1	209.0	50.74	35- 40	41.09	336.9	34.9,34.9
45	25.74	36.77	131.3	90.05	47.66	96.06	157.1	39.61	40- 45	34.18	371.1	38.4,38.4
50	21.36	29.34	101.0	63.54	34.51	69.83	123.0	31.73	45- 50	27.76	398.8	41.3,41.3
55	17.88	23.89	70.76	44.75	25.73	51.22	88.91	25.92	50- 55	22.44	421.3	43.6,43.6
60	15.08	19.80	40.51	31.98	19.52	37.82	54.83	21.34	55- 60	17.30	438.6	45.4,45.4
65	12.61	16.44	30.24	22.25	14.64	27.78	42.43	17.67	60- 65	13.03	451.6	46.8,46.8
70	10.32	13.39	19.97	14.88	10.58	20.24	30.02	14.37	65- 70	10.17	461.8	47.8,47.8
75	7.971	10.44	9.704	9.206	7.354	14.19	17.62	11.18	70- 75	7.392	469.2	48.6,48.6
80	5.562	7.621	6.924	4.728	2.443	9.052	12.41	8.174	75- 80	4.941	474.1	49.1,49.1
85	3.123	4.594	4.144	2.793	0.4140	5.195	7.196	4.829	80- 85	3.158	477.3	49.4,49.4
90	0.7875	1.688	1.364	0.8860	0.4020	1.525	1.983	1.554	85- 90	1.577	478.8	49.6,49.6
95	7.834	4.767	6.530	4.931	1.446	4.685	6.258	4.005	90- 95	1.695	480.5	49.7,49.7
100	10.04	7.955	11.70	9.143	5.406	7.943	10.53	6.553	95-100	3.492	484.0	50.1,50.1
105	12.14	11.21	16.86	14.61	8.218	12.58	14.81	9.273	100-105	5.438	489.5	50.7,50.7
110	13.91	14.61	28.89	21.08	11.26	18.05	27.03	12.24	105-110	8.010	497.5	51.5,51.5
115	15.65	18.16	40.91	29.49	14.67	25.76	39.26	15.29	110-115	10.95	508.4	52.6,52.6
120	17.34	21.99	52.94	41.26	18.60	37.09	51.48	18.65	115-120	13.99	522.4	54.1,54.1
125	19.04	26.45	84.38	57.22	24.14	52.08	84.59	22.79	120-125	18.50	540.9	56.56
130	20.99	31.04	115.8	78.84	32.33	71.75	117.7	27.91	125-130	23.87	564.8	58.5,58.5
135	23.05	36.80	147.3	109.4	46.24	98.59	150.8	34.82	130-135	29.33	594.1	61.5,61.5
140	28.18	44.85	192.5	152.9	68.70	137.3	198.4	44.52	135-140	35.67	629.8	65.2,65.2
145	35.30	56.93	237.8	210.5	104.7	191.7	246.1	57.52	140-145	42.40	672.2	69.6,69.6
150	46.74	74.76	283.1	285.4	161.3	267.7	293.7	75.99	145-150	48.73	720.9	74.6,74.6
155	64.50	100.6	318.6	374.3	249.1	363.2	328.6	102.7	150-155	53.48	774.4	80.2,80.2
160	92.59	137.7	354.1	461.2	370.1	456.9	363.5	140.9	155-160	55.68	830.1	85.9,85.9
165	137.5	186.8	389.6	508.0	490.0	510.7	398.4	190.5	160-165	53.20	883.3	91.4,91.4
170	208.1	253.6	402.1	516.8	549.0	523.6	409.5	258.0	165-170	43.83	927.1	96.96
175	310.2	337.1	414.6	486.8	523.9	493.2	420.5	341.5	170-175	28.75	955.9	99.99
180	427.1	427.1	427.1	427.1	431.6	431.6	431.6	431.6	175-180	10.07	965.9	100,100
DEG	LUMINOUS INTENSITY:cd								UNIT:lm			



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	1561	2072
80	1396	1737
75	1342	1634
70	1314	2545
65	1300	3118
60	1314	3531
55	1358	5375
50	1448	6847
45	1586	8088

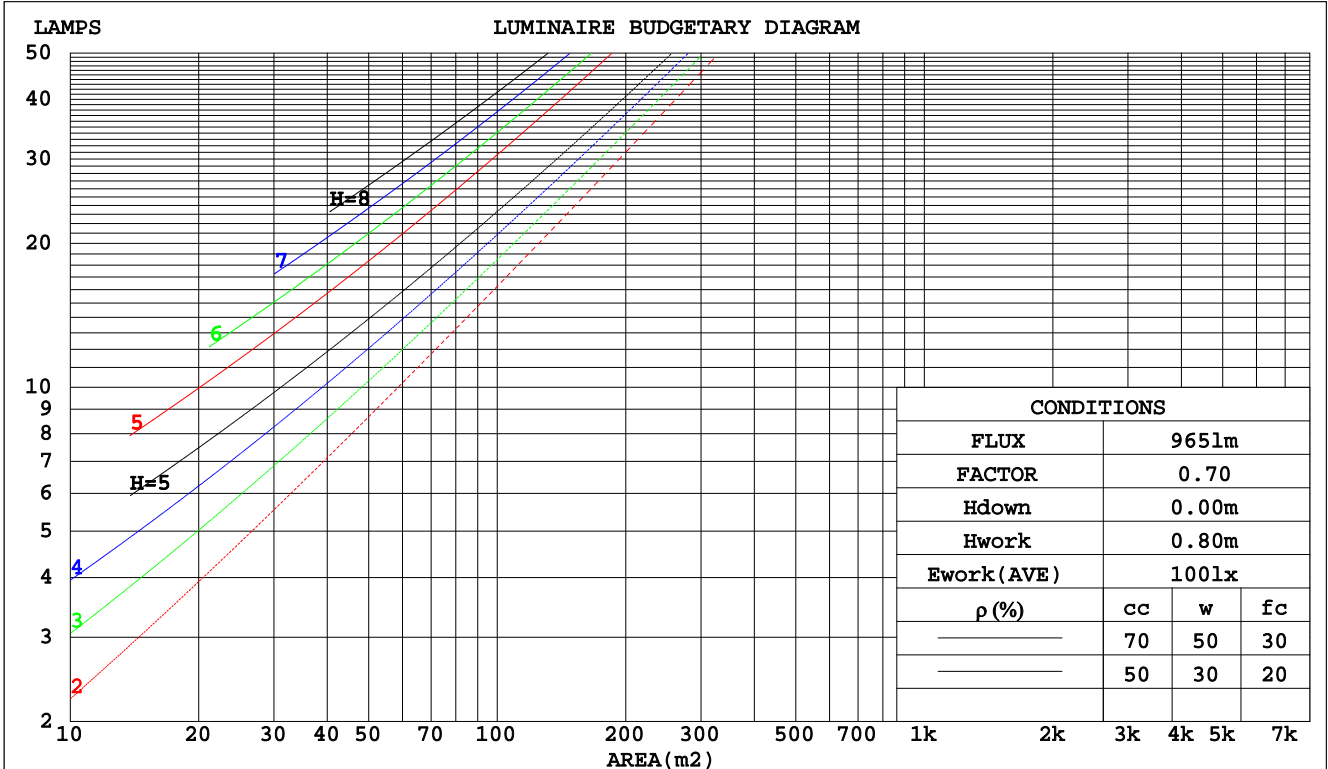
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2020-12-22

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
Humidity:65.0%
Test Distance:10.237m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:240.3V I:0.0440A P:9.850W PF:0.9210 Lamp Flux:965.929x1 lm		
NAME: SWL-10W-CC-W	TYPE:10W	WEIGHT:
DIM.:	SPEC.:3000K	SERIAL No.:
MFR.:	SUR.:0.0855	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	.99	.99	.99	.83	.83	.83	.69	.69	.69	.56	.56	.56	.50
1.0	.95	.92	.89	.88	.85	.83	.75	.73	.71	.62	.61	.60	.51	.50	.50	.44
2.0	.85	.79	.75	.79	.74	.70	.67	.64	.61	.57	.54	.52	.47	.45	.44	.40
3.0	.76	.70	.64	.71	.65	.61	.61	.57	.53	.52	.49	.46	.43	.41	.39	.36
4.0	.69	.62	.56	.64	.58	.53	.55	.51	.47	.47	.44	.41	.40	.37	.36	.32
5.0	.62	.55	.50	.58	.52	.47	.51	.46	.42	.43	.40	.37	.37	.34	.32	.29
6.0	.57	.49	.44	.53	.47	.42	.46	.41	.38	.40	.36	.34	.34	.32	.30	.27
7.0	.52	.45	.40	.49	.42	.38	.43	.38	.34	.37	.33	.31	.32	.29	.27	.25
8.0	.48	.41	.36	.45	.39	.34	.40	.35	.31	.35	.31	.28	.30	.27	.25	.23
9.0	.44	.37	.33	.42	.35	.31	.37	.32	.29	.32	.29	.26	.28	.25	.23	.21
10.0	.41	.34	.30	.39	.33	.29	.34	.30	.26	.30	.27	.24	.26	.24	.22	.20



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2020-12-22

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:10.237m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:240.3V I:0.0440A P:9.850W PF:0.9210 Lamp Flux:965.929x1 lm		
NAME: SWL-10W-CC-W	TYPE:10W	WEIGHT:
DIM.:	SPEC.:3000K	SERIAL No.:
MFR.:	SUR.:0.0855	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	.245	.139	.044	.223	.127	.040	.181	.104	.033	.143	.083	.027	.108	.063	.020	
2.0	.228	.125	.038	.208	.115	.035	.171	.095	.030	.136	.076	.024	.104	.059	.019	
3.0	.213	.113	.034	.194	.104	.031	.160	.087	.026	.128	.070	.022	.099	.055	.017	
4.0	.198	.103	.030	.181	.095	.028	.150	.080	.024	.121	.065	.020	.094	.051	.015	
5.0	.185	.094	.027	.170	.087	.025	.141	.073	.022	.114	.060	.018	.089	.047	.014	
6.0	.173	.087	.025	.159	.080	.023	.132	.068	.020	.107	.056	.016	.084	.044	.013	
7.0	.163	.080	.023	.150	.075	.021	.125	.063	.018	.101	.052	.015	.080	.041	.012	
8.0	.153	.075	.021	.141	.069	.020	.118	.059	.017	.096	.049	.014	.076	.039	.011	
9.0	.144	.070	.020	.133	.065	.018	.112	.055	.016	.091	.046	.013	.072	.037	.011	
10.0	.137	.066	.018	.126	.061	.017	.106	.052	.015	.087	.043	.012	.069	.035	.010	

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	.575	.575	.575	.491	.491	.491	.335	.335	.335	.193	.193	.193	.062	.062	.062	
1.0	.563	.544	.527	.482	.467	.453	.330	.321	.314	.190	.186	.182	.061	.060	.059	
2.0	.554	.522	.496	.474	.450	.428	.325	.311	.299	.187	.181	.175	.060	.059	.057	
3.0	.546	.506	.474	.468	.437	.411	.321	.303	.289	.185	.177	.170	.060	.057	.056	
4.0	.538	.494	.460	.462	.427	.399	.318	.297	.281	.184	.174	.166	.059	.057	.055	
5.0	.531	.484	.449	.456	.419	.391	.314	.293	.276	.182	.172	.164	.059	.056	.054	
6.0	.525	.476	.441	.451	.412	.384	.311	.289	.272	.181	.170	.162	.058	.056	.053	
7.0	.519	.470	.435	.447	.407	.380	.309	.286	.269	.179	.168	.160	.058	.055	.053	
8.0	.514	.465	.431	.442	.403	.376	.306	.283	.267	.178	.167	.159	.058	.055	.053	
9.0	.509	.460	.427	.438	.399	.373	.304	.281	.265	.177	.166	.158	.057	.054	.052	
10.0	.504	.456	.425	.434	.396	.371	.301	.279	.263	.176	.165	.157	.057	.054	.052	

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2020-12-22

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:10.237m [K=1.0000]
 Remarks:

Uncorrected UGR Table

Test:U:240.3V I:0.0440A P:9.850W PF:0.9210 Lamp Flux:965.929x1 lm										
NAME: SWL-10W-CC-W					TYPE:10W			WEIGHT:		
DIM.:					SPEC.:3000K			SERIAL No.:		
MFR.:					SUR.:0.0855			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	6.0	6.9	6.9	7.7	8.8	12.2	13.1	13.1	13.9	15.0
3H	7.3	8.1	8.2	8.9	10.0	13.0	13.7	13.9	14.6	15.7
4H	8.0	8.7	8.9	9.5	10.7	13.2	13.9	14.1	14.8	15.9
6H	8.5	9.2	9.5	10.1	11.2	13.4	14.0	14.3	14.9	16.0
8H	8.8	9.4	9.7	10.3	11.5	13.4	14.0	14.3	14.9	16.1
12H	9.0	9.6	9.9	10.5	11.7	13.5	14.0	14.4	15.0	16.1
4H 2H	6.9	7.6	7.8	8.4	9.6	12.0	12.7	12.9	13.6	14.7
3H	8.3	8.9	9.2	9.8	11.0	12.9	13.5	13.9	14.4	15.6
4H	9.0	9.5	10.0	10.5	11.7	13.3	13.9	14.3	14.8	16.0
6H	9.7	10.2	10.7	11.1	12.4	13.7	14.1	14.7	15.1	16.3
8H	10.0	10.4	11.0	11.4	12.7	13.8	14.3	14.8	15.2	16.5
12H	10.3	10.7	11.3	11.6	12.9	14.0	14.3	15.0	15.3	16.6
8H 4H	9.5	9.9	10.5	10.9	12.1	13.3	13.7	14.3	14.7	15.9
6H	10.4	10.7	11.4	11.7	13.0	13.8	14.2	14.8	15.2	16.5
8H	10.8	11.1	11.8	12.1	13.4	14.1	14.4	15.1	15.4	16.7
12H	11.2	11.5	12.2	12.5	13.8	14.4	14.6	15.4	15.6	17.0
12H 4H	9.5	9.9	10.5	10.9	12.2	13.2	13.6	14.2	14.6	15.9
6H	10.5	10.8	11.5	11.8	13.1	13.8	14.1	14.8	15.1	16.4
8H	11.0	11.3	12.1	12.3	13.6	14.1	14.4	15.2	15.4	16.7
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.2					+ 1.4 / - 0.5				
1.5H	+ 0.1 / - 0.1					+ 2.3 / - 1.3				
2.0H	+ 0.1 / - 0.2					+ 3.0 / - 1.4				

CIE Pub.117 Corrected 965.9 lm Total Lamp Luminous Flux. (8log(F/F0) = -0.1)

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2020-12-22

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:10.237m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:240.3V I:0.0440A P:9.850W PF:0.9210 Lamp Flux:965.929x1 lm		
NAME: SWL-10W-CC-W	TYPE:10W	WEIGHT:
DIM.:	SPEC.:3000K	SERIAL No.:
MFR.:	SUR.:0.0855	PROTECTION ANGLE:

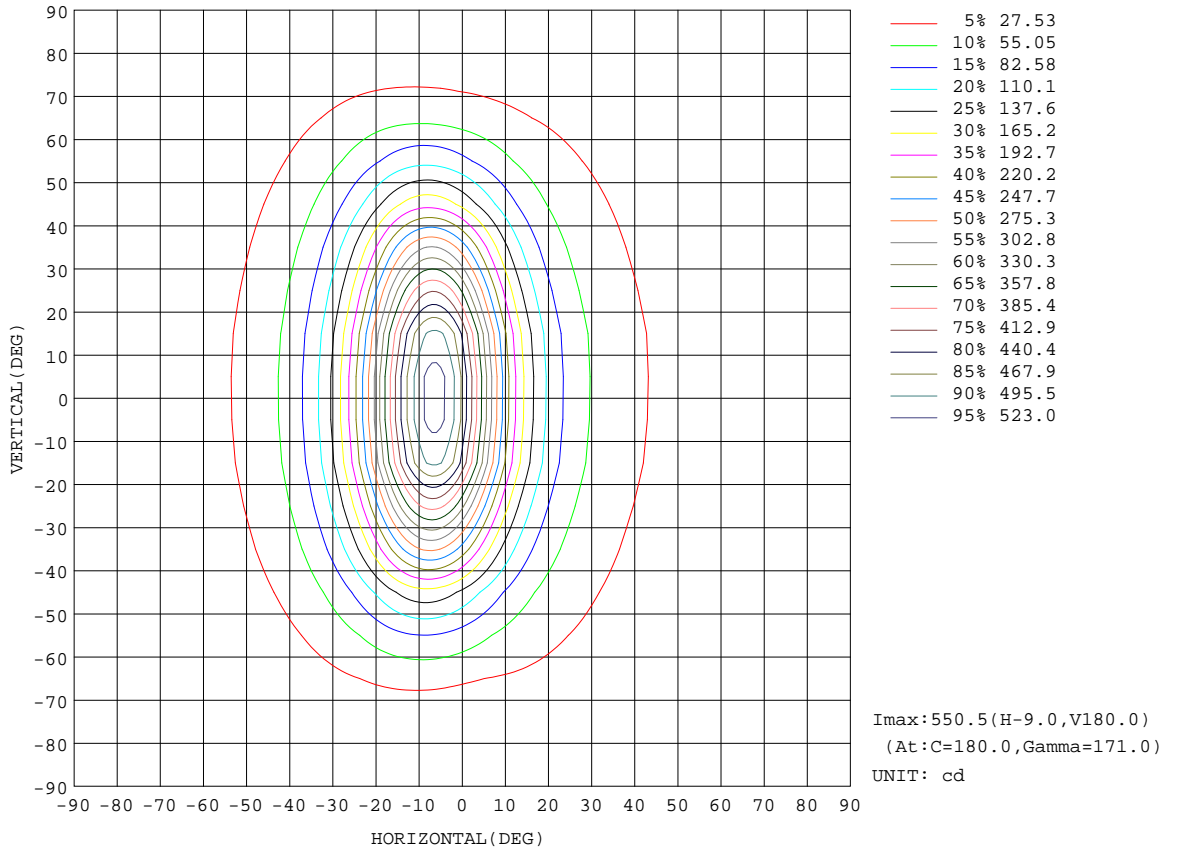
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	52	42	37	49	41	36	45	38	34	27
0.80	61	51	45	57	49	43	51	45	40	31
1.00	68	58	52	64	55	50	56	51	46	34
1.25	74	64	58	69	61	56	61	55	51	37
1.50	78	69	63	73	66	60	64	58	54	39
2.00	84	76	70	79	72	67	68	63	59	41
2.50	88	81	75	82	76	71	70	66	63	42
3.00	91	85	79	84	79	75	72	69	66	44
4.00	95	89	85	88	83	80	75	72	69	45
5.00	97	93	89	90	86	83	76	74	72	46
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:DAMIN
 Test Date:2020-12-22

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:10.237m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:240.3V I:0.0440A P:9.850W PF:0.9210 Lamp Flux:965.929x1 lm		
NAME: SWL-10W-CC-W	TYPE:10W	WEIGHT:
DIM.:	SPEC.:3000K	SERIAL No.:
MFR.:	SUR.:0.0855	PROTECTION ANGLE:

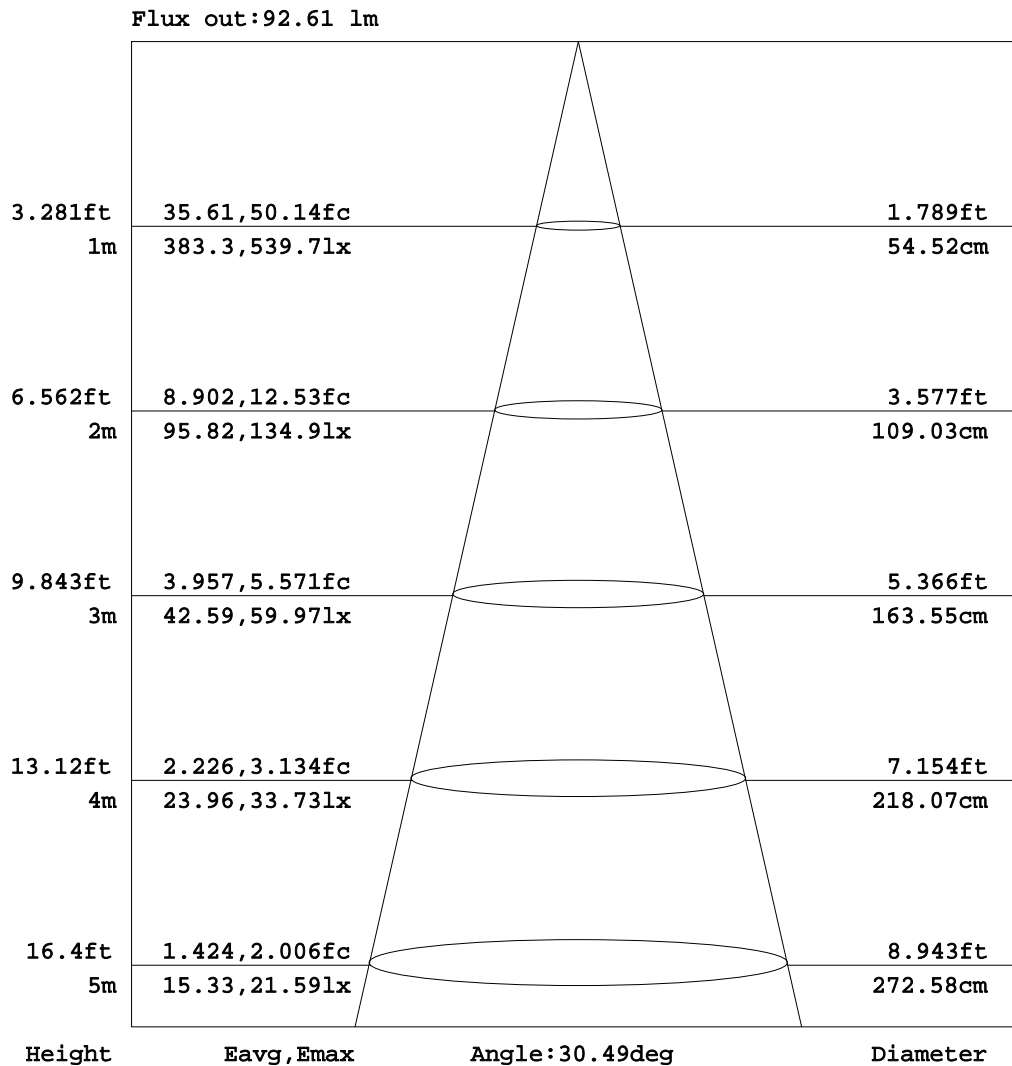


C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2020-12-22

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:10.237m [K=1.0000]
 Remarks:

AAI Figure

Test:U:240.3V I:0.0440A P:9.850W PF:0.9210 Lamp Flux:965.929x1 lm		
NAME: SWL-10W-CC-W	TYPE:10W	WEIGHT:
DIM.:	SPEC.:3000K	SERIAL No.:
MFR.:	SUR.:0.0855	PROTECTION ANGLE:



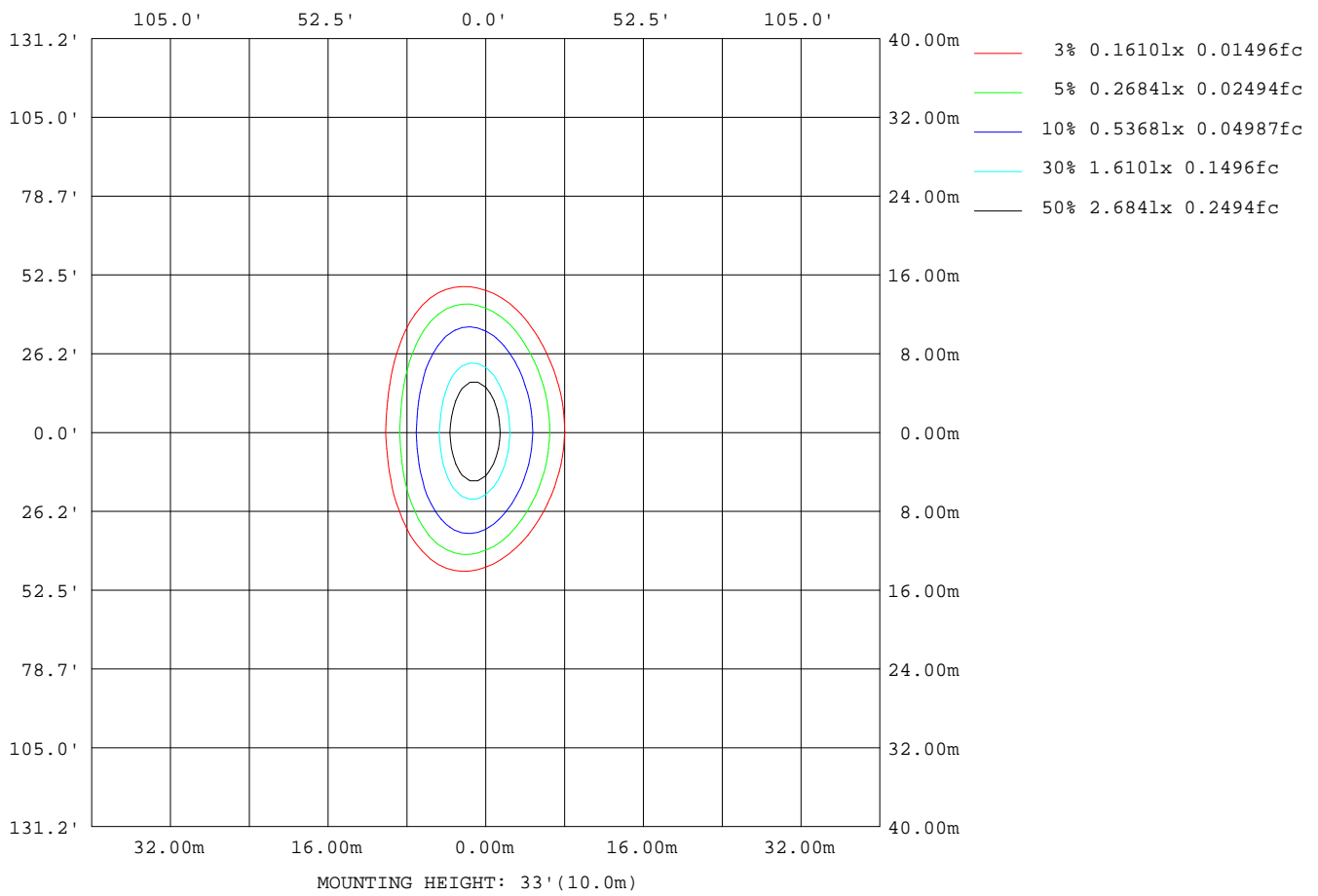
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2020-12-22

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:10.237m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

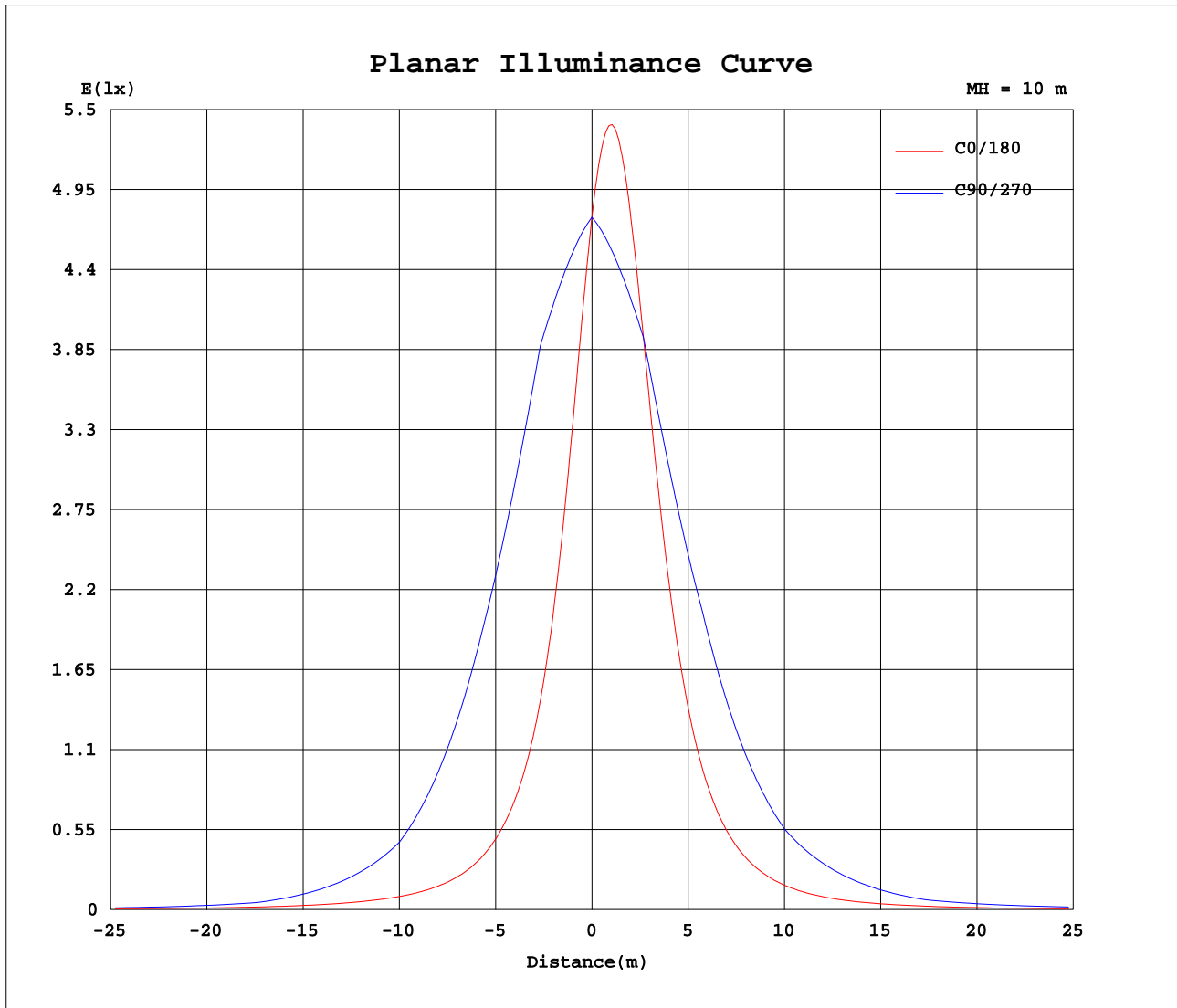
Test:U:240.3V I:0.0440A P:9.850W PF:0.9210 Lamp Flux:965.929x1 lm		
NAME: SWL-10W-CC-W	TYPE:10W	WEIGHT:
DIM.:	SPEC.:3000K	SERIAL No.:
MFR.:	SUR.:0.0855	PROTECTION ANGLE:



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2020-12-22

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:10.237m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2020-12-22

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity: 65.0%
 Test Distance: 10.237m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:240.3V I:0.0440A P:9.850W PF:0.9210 Lamp Flux:965.929x1 lm		
NAME: SWL-10W-CC-W	TYPE:10W	WEIGHT:
DIM.:	SPEC.:3000K	SERIAL No.:
MFR.:	SUR.:0.0855	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	476	476	476	476	476	476	476	476	476	476	476	476	476	476	476	476	476	476	476
5	356	356	356	357	360	363	367	372	377	384	391	399	407	416	424	433	443	452	461
10	241	241	242	244	248	254	261	270	280	292	305	320	336	354	372	391	409	428	445
15	160	159	160	163	167	172	180	190	201	215	232	250	272	296	321	349	377	404	430
20	108	107	108	110	114	119	125	134	145	158	173	190	210	233	260	289	321	353	383
25	75.4	75.1	75.8	77.4	80.3	84.4	89.9	97.1	104	113	125	139	157	179	205	235	268	303	336
30	54.5	54.2	54.8	56.1	58.4	61.7	65.6	69.9	75.5	82.8	92.0	104	119	137	160	188	220	255	289
35	40.9	40.6	41.0	42.0	43.8	46.0	48.4	51.8	56.2	61.8	69.2	78.4	90.0	104	123	147	175	205	236
40	31.9	31.7	31.9	32.7	33.9	35.2	37.0	39.6	43.0	47.3	52.7	59.5	68.2	79.4	93.6	112	134	159	184
45	25.7	25.5	25.7	26.4	26.9	27.9	29.3	31.3	33.7	36.8	40.7	45.7	52.0	59.9	69.9	82.4	97.3	114	131
50	21.4	21.2	21.3	21.7	22.1	22.8	23.9	25.2	27.0	29.3	32.2	35.6	40.1	45.9	53.2	62.6	74.0	87.3	101
55	17.9	17.7	18.0	18.1	18.5	19.1	19.8	20.8	22.2	23.9	26.0	28.7	31.9	35.9	40.6	46.4	53.5	61.8	70.8
60	15.1	15.0	15.1	15.2	15.6	16.0	16.6	17.4	18.5	19.8	21.4	23.3	25.4	27.6	29.8	32.1	34.5	37.2	40.5
65	12.6	12.5	12.6	12.8	13.0	13.3	13.8	14.5	15.3	16.4	17.6	18.9	20.2	21.6	23.1	24.7	26.2	28.0	30.2
70	10.3	10.3	10.3	10.5	10.7	10.9	11.3	11.9	12.6	13.4	14.2	15.1	16.1	17.1	18.0	18.7	19.0	19.2	20.0
75	7.97	7.94	8.10	8.27	8.44	8.69	8.98	9.30	9.79	10.4	11.1	11.7	12.3	12.9	13.1	13.0	12.1	10.5	9.70
80	5.56	5.62	5.86	6.08	6.26	6.37	6.54	6.80	7.18	7.62	8.00	8.35	8.67	8.96	9.13	9.05	8.45	7.45	6.92
85	3.12	3.39	3.79	3.95	4.04	4.14	4.19	4.29	4.42	4.59	4.79	4.93	5.08	5.19	5.28	5.26	4.96	4.43	4.14
90	0.79	2.12	2.12	2.12	2.02	1.96	1.88	1.84	1.75	1.69	1.64	1.55	1.52	1.45	1.44	1.46	1.44	1.41	1.36
95	7.83	4.95	4.43	4.19	4.10	4.14	4.22	4.37	4.55	4.77	5.03	5.18	5.35	5.51	5.74	6.04	6.21	6.38	6.53
100	10.0	8.17	7.39	7.07	6.89	6.82	6.86	7.09	7.44	7.95	8.47	8.85	9.22	9.60	10.1	10.6	11.0	11.4	11.7
105	12.1	11.2	10.4	10.00	9.74	9.73	9.84	10.1	10.5	11.2	11.9	12.6	13.3	13.9	14.6	15.5	15.9	16.4	16.9
110	13.9	13.8	13.2	12.7	12.6	12.5	12.7	13.1	13.8	14.6	15.5	16.6	17.7	18.7	20.3	22.3	24.3	26.6	28.9
115	15.6	16.0	15.9	15.6	15.4	15.5	15.8	16.3	17.0	18.2	19.4	21.0	22.3	23.8	26.4	29.5	33.0	36.9	40.9
120	17.3	18.0	18.6	18.4	18.6	18.7	19.0	19.8	20.7	22.0	23.6	25.5	27.4	30.1	33.8	38.0	42.7	47.7	52.9
125	19.0	19.8	20.9	21.0	21.4	22.1	22.5	23.3	24.7	26.5	28.4	30.8	33.7	38.3	44.4	52.1	61.5	72.5	84.4
130	21.0	21.8	22.9	23.9	24.4	25.3	26.4	27.4	28.9	31.0	33.8	37.1	41.7	48.3	57.0	68.2	82.0	98.2	116
135	23.1	24.2	25.6	27.2	28.0	29.1	30.4	32.2	34.2	36.8	40.4	45.3	52.2	61.1	72.6	87.1	105	125	147
140	28.2	28.9	30.0	31.4	32.7	33.8	35.5	38.0	41.0	44.9	50.1	57.1	66.1	77.8	92.9	112	135	163	193
145	35.3	35.6	36.4	37.7	39.5	41.6	44.0	47.1	51.4	56.9	64.2	73.5	84.9	99.5	118	142	170	203	238
150	46.7	46.8	47.5	48.9	51.1	54.3	58.1	62.3	67.7	74.8	83.6	94.8	109	127	149	176	208	245	283
155	64.5	64.5	65.4	67.1	69.8	73.7	78.8	85.3	92.1	101	111	125	141	161	186	214	247	282	319
160	92.6	92.5	93.5	95.5	98.8	103	109	117	126	138	151	166	184	206	230	258	289	321	354
165	137	137	138	141	144	149	156	164	175	187	201	218	237	258	282	307	334	362	390
170	208	208	209	211	215	220	226	234	243	254	266	279	294	310	328	346	364	383	402
175	310	310	310	312	314	317	321	325	331	337	344	351	360	368	377	386	395	405	415
180	427	427	427	427	427	427	427	427	427	427	427	427	427	427	427	427	427	427	427

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2020-12-22

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:10.237m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:240.3V I:0.0440A P:9.850W PF:0.9210 Lamp Flux:965.929x1 lm		
NAME: SWL-10W-CC-W	TYPE:10W	WEIGHT:
DIM.:	SPEC.:3000K	SERIAL No.:
MFR.:	SUR.:0.0855	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	476	476	476	476	476	476	476	476	476	476	476	476	476	476	476	476	476	476	476
5	469	478	486	493	500	506	512	517	521	526	529	532	535	537	540	542	544	545	544
10	463	477	490	501	510	517	521	524	525	525	525	524	523	522	522	523	524	526	524
15	455	474	489	500	505	505	502	496	487	477	467	458	449	442	437	435	435	437	434
20	411	434	450	459	462	458	449	437	420	399	380	362	347	335	326	321	319	320	319
25	366	388	402	406	401	388	370	349	327	307	288	267	250	237	227	221	219	220	219
30	318	340	351	350	337	317	293	268	243	222	203	188	174	162	153	148	146	147	146
35	263	282	290	286	271	250	226	200	177	157	141	129	119	111	104	100	98.3	98.9	98.5
40	206	221	227	221	207	187	165	145	128	112	99.3	89.2	81.8	76.5	71.9	68.7	67.4	67.9	67.7
45	147	160	165	161	150	135	118	103	90.0	79.4	70.8	63.0	57.2	53.2	50.6	48.2	47.2	47.7	47.6
50	113	122	123	118	108	95.2	83.2	72.7	63.5	55.9	49.8	45.1	40.9	37.9	36.1	34.8	34.1	34.5	34.5
55	79.2	85.2	86.8	83.6	76.9	68.2	59.5	51.5	44.8	39.5	35.4	32.1	29.8	27.7	26.5	25.9	25.4	25.7	25.7
60	44.5	48.6	51.5	52.0	50.1	46.2	41.3	36.4	32.0	28.2	25.4	23.1	21.5	20.7	19.7	19.4	19.2	19.5	19.5
65	32.8	34.8	35.5	34.7	32.8	30.0	27.0	24.8	22.2	19.8	17.9	16.5	15.4	14.8	14.6	14.3	14.3	14.6	14.7
70	21.5	22.8	23.4	23.2	22.1	20.4	18.4	16.6	14.9	13.1	11.9	11.1	10.5	9.87	9.86	9.98	10.4	10.6	10.7
75	10.1	10.7	11.5	12.0	12.0	11.4	10.6	9.89	9.21	8.50	7.71	6.81	6.22	5.78	5.43	5.70	6.81	7.35	7.38
80	7.13	7.35	7.51	7.50	7.16	6.38	5.58	5.00	4.73	4.67	4.30	3.63	3.18	2.81	2.38	1.90	1.52	2.44	2.68
85	4.24	4.35	4.42	4.40	4.19	3.70	3.20	2.92	2.79	2.70	2.26	1.65	1.28	1.07	0.98	0.82	0.64	0.41	0.83
90	1.34	1.34	1.33	1.30	1.27	1.10	0.89	0.89	0.89	0.88	0.77	0.62	0.55	0.51	0.46	0.49	0.44	0.40	0.33
95	6.74	7.00	7.25	7.34	7.18	6.71	5.89	5.42	4.93	4.39	3.89	3.47	2.80	2.17	2.02	1.70	1.81	1.45	1.37
100	12.1	12.6	13.2	13.4	13.1	12.4	11.0	10.1	9.14	8.14	7.31	6.72	6.08	5.89	5.74	5.66	5.53	5.41	4.40
105	17.6	18.7	19.9	20.8	20.8	19.9	18.1	16.3	14.6	13.0	11.6	10.5	9.76	9.20	8.89	8.63	8.46	8.22	8.09
110	31.1	33.3	34.7	34.7	33.2	30.7	27.5	24.0	21.1	18.6	16.6	15.0	13.8	12.9	12.4	11.9	11.7	11.3	11.4
115	44.5	47.8	49.4	48.9	46.3	42.4	38.0	33.7	29.5	25.8	22.8	20.5	18.9	17.6	16.8	16.0	15.6	14.7	14.9
120	58.2	64.2	68.5	69.9	67.3	62.0	55.2	48.1	41.3	35.4	31.1	27.7	25.2	23.6	22.2	21.3	20.7	18.6	19.1
125	95.7	105	109	107	99.3	88.7	77.3	66.6	57.2	49.0	42.7	37.9	34.4	31.5	29.6	28.5	27.6	24.1	25.0
130	132	145	151	147	136	121	106	91.5	78.8	68.2	59.7	53.4	47.3	43.4	40.9	39.0	38.2	32.3	33.5
135	169	186	196	195	184	167	146	127	109	95.2	84.0	73.9	66.4	61.0	57.4	54.4	53.2	46.2	47.0
140	221	244	257	257	245	225	200	175	153	133	117	104	94.4	87.5	81.6	77.2	75.2	68.7	68.7
145	272	300	317	321	312	293	268	239	211	186	166	150	138	127	119	113	111	105	103
150	320	351	371	379	375	360	338	312	285	260	238	220	202	188	178	171	168	161	159
155	353	384	408	422	427	423	411	394	374	354	334	311	291	276	265	258	255	249	246
160	385	415	439	458	470	476	477	472	461	445	428	412	397	385	377	371	369	370	367
165	416	440	462	479	492	501	507	509	508	505	500	495	490	486	483	481	482	490	486
170	420	437	454	469	482	493	502	510	517	521	526	529	531	533	535	537	540	549	546
175	424	433	442	451	459	467	474	481	487	492	497	502	505	509	512	514	516	524	522
180	427	427	427	427	427	427	427	427	427	427	427	427	427	427	427	427	427	432	432

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2020-12-22

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:10.237m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:240.3V I:0.0440A P:9.850W PF:0.9210 Lamp Flux:965.929x1 lm		
NAME: SWL-10W-CC-W	TYPE:10W	WEIGHT:
DIM.:	SPEC.:3000K	SERIAL No.:
MFR.:	SUR.:0.0855	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	476	476	476	476	476	476	476	476	476	476	476	476	476	476	476	476	476	476	476
5	542	540	538	535	533	530	526	522	518	513	507	501	494	487	479	471	463	453	444
10	523	522	522	523	524	525	526	526	525	522	518	512	503	492	480	466	450	431	413
15	435	437	442	449	458	467	477	487	496	502	506	506	502	492	478	459	436	409	382
20	321	326	335	346	361	379	399	419	437	451	462	467	466	459	443	422	395	363	331
25	221	227	237	250	267	288	307	329	352	375	396	411	419	417	405	383	354	319	283
30	148	154	162	174	188	204	224	247	273	301	329	352	368	372	364	343	313	277	240
35	100	105	112	120	130	143	161	182	207	236	263	288	306	313	307	289	261	228	194
40	69.2	72.6	77.6	83.3	91.3	102	116	133	153	176	200	224	242	251	248	233	209	181	153
45	48.8	51.5	54.5	59.0	65.3	73.9	83.7	96.1	111	129	149	169	184	191	188	175	157	137	116
50	35.5	37.2	39.4	42.8	47.5	53.1	60.5	69.8	81.2	94.6	110	125	139	146	146	137	123	107	90.2
55	26.6	27.5	29.2	31.7	34.7	38.9	44.3	51.2	59.7	69.7	80.9	92.1	101	106	106	99.0	88.9	77.8	66.8
60	20.1	20.9	22.2	23.6	25.8	28.9	32.8	37.8	43.8	50.6	57.5	63.6	67.3	67.8	65.1	60.3	54.8	49.9	45.0
65	15.2	15.9	16.6	17.8	19.4	21.5	24.3	27.8	31.7	35.7	40.3	44.6	47.9	49.4	48.9	46.3	42.4	38.6	34.6
70	11.0	11.5	12.2	13.1	14.2	15.8	17.8	20.2	23.1	26.3	29.5	32.3	34.3	35.1	34.5	32.7	30.0	27.7	25.3
75	7.50	7.85	8.22	8.99	9.91	11.0	12.5	14.2	16.1	17.9	19.6	20.8	21.2	20.9	20.0	19.0	17.6	17.0	16.2
80	3.12	3.64	4.20	5.06	5.67	6.79	7.87	9.05	10.3	11.6	12.8	13.8	14.4	14.4	14.0	13.4	12.4	11.8	11.2
85	0.99	1.25	1.60	2.05	2.67	3.56	4.30	5.19	6.03	7.00	7.82	8.44	8.80	8.75	8.40	7.90	7.20	6.76	6.34
90	0.44	0.58	0.73	0.75	0.79	0.88	0.96	1.52	1.90	2.50	2.90	3.11	3.25	3.08	2.76	2.38	1.98	1.69	1.51
95	1.67	1.93	2.16	2.54	2.98	3.47	4.04	4.68	5.23	5.95	6.57	7.62	7.43	7.42	7.23	6.85	6.26	5.81	5.42
100	3.98	4.17	4.55	5.11	5.77	6.48	7.30	7.94	8.66	9.47	10.4	12.1	11.6	11.8	11.7	11.3	10.5	9.94	9.35
105	7.72	7.58	7.93	8.57	9.45	10.5	11.5	12.6	13.8	15.2	16.6	18.4	17.3	17.1	16.6	15.9	14.8	14.1	13.5
110	11.6	11.7	12.2	12.8	13.8	14.9	16.3	18.0	20.5	23.8	26.9	29.5	30.2	31.4	31.3	29.7	27.0	24.5	22.1
115	15.3	15.9	16.5	17.4	18.7	20.4	22.9	25.8	29.3	33.6	38.0	41.5	43.6	45.8	46.0	43.4	39.3	35.0	31.0
120	20.2	20.8	22.0	23.4	25.3	27.9	31.9	37.1	43.1	49.7	55.9	60.7	63.4	64.7	62.6	57.5	51.5	46.0	41.0
125	26.9	27.9	29.7	32.3	35.2	39.1	45.0	52.1	60.3	69.9	80.2	89.8	98.8	105	105	96.5	84.6	72.3	61.0
130	35.7	38.3	40.4	44.2	49.4	54.9	62.3	71.8	82.9	95.8	110	124	138	146	146	135	118	99.5	82.7
135	49.0	52.1	55.6	60.6	67.6	76.8	86.7	98.6	114	133	152	171	187	194	189	173	151	128	107
140	70.5	74.2	79.1	84.9	93.4	105	120	137	159	182	208	231	252	259	249	227	198	168	140
145	104	108	114	124	135	149	168	192	219	249	275	303	321	322	307	280	246	210	176
150	161	165	173	184	199	217	241	268	296	323	350	374	384	379	360	330	294	255	217
155	247	252	261	276	295	319	341	363	384	405	421	430	429	416	394	364	329	292	255
160	367	372	380	392	407	423	440	457	469	476	479	476	465	448	424	396	364	330	297
165	485	485	488	492	497	502	507	511	513	512	508	500	487	471	450	425	398	371	343
170	544	541	539	537	535	532	528	524	517	510	501	490	477	462	446	428	409	390	371
175	521	518	515	512	508	504	499	493	487	481	473	466	457	449	439	430	421	411	401
180	432	432	432	432	432	432	432	432	432	432	432	432	432	432	432	432	432	432	432

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2020-12-22

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:10.237m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:240.3V I:0.0440A P:9.850W PF:0.9210 Lamp Flux:965.929x1 lm		
NAME: SWL-10W-CC-W	TYPE:10W	WEIGHT:
DIM.:	SPEC.:3000K	SERIAL No.:
MFR.:	SUR.:0.0855	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	476	476	476	476	476	476	476	476	476	476	476	476	476	476	476				
5	435	426	417	408	400	392	385	379	373	368	364	360	358	356	356				
10	394	375	357	339	323	308	294	282	272	263	255	250	245	242	241				
15	354	326	300	276	254	235	218	204	192	182	174	168	164	161	159				
20	299	268	241	216	195	177	161	148	137	128	120	115	111	109	108				
25	248	216	189	165	146	130	118	108	99.7	92.1	86.1	81.7	78.4	76.4	75.4				
30	205	174	148	127	110	97.2	86.9	78.8	72.5	67.7	63.4	59.7	57.1	55.4	54.5				
35	163	137	115	98.2	84.9	74.1	65.7	59.2	54.2	50.4	47.6	45.1	43.0	41.6	40.9				
40	128	106	88.8	75.4	65.1	57.0	50.7	45.7	41.7	38.7	36.6	35.1	33.6	32.5	32.0				
45	97.6	81.5	68.6	58.4	50.5	44.4	39.6	36.0	33.2	30.8	29.1	27.9	27.1	26.2	25.8				
50	75.4	63.1	53.2	45.7	39.8	35.3	31.7	28.9	26.8	25.2	23.9	22.9	22.3	21.7	21.4				
55	56.8	48.4	41.6	36.2	31.9	28.6	25.9	23.8	22.1	20.8	19.9	19.1	18.6	18.3	17.9				
60	40.3	35.9	32.0	28.6	25.7	23.3	21.3	19.7	18.5	17.4	16.7	16.2	15.7	15.5	15.1				
65	30.9	27.6	24.9	22.6	20.8	19.1	17.7	16.4	15.4	14.6	14.0	13.5	13.3	12.9	12.7				
70	23.0	21.0	19.3	17.8	16.5	15.4	14.4	13.5	12.7	12.0	11.5	11.3	10.9	10.7	10.5				
75	15.5	14.8	14.1	13.4	12.7	11.9	11.2	10.5	9.94	9.54	9.28	9.06	8.90	8.55	8.22				
80	10.6	10.1	9.65	9.29	8.92	8.57	8.17	7.75	7.26	7.01	6.92	6.94	6.77	6.52	6.01				
85	5.98	5.69	5.47	5.30	5.15	4.99	4.83	4.65	4.48	4.50	4.53	4.59	4.58	4.52	4.16				
90	1.38	1.32	1.31	1.34	1.42	1.48	1.55	1.65	1.71	1.88	2.08	2.22	2.34	2.44	2.55				
95	5.09	4.81	4.70	4.51	4.37	4.21	4.00	3.81	3.64	3.56	3.54	3.44	3.37	3.31	2.92				
100	8.82	8.33	8.11	7.70	7.37	7.03	6.55	6.07	5.73	5.53	5.49	5.42	5.29	5.09	4.67				
105	12.9	12.3	11.9	11.2	10.6	9.95	9.27	8.62	8.15	7.85	7.61	7.38	7.25	6.99	6.70				
110	20.0	18.1	16.6	15.3	14.2	13.1	12.2	11.4	10.7	10.1	9.68	9.36	9.12	8.90	8.74				
115	27.4	24.3	21.8	19.8	18.1	16.6	15.3	14.2	13.2	12.6	12.0	11.6	11.3	11.0	10.9				
120	36.3	32.0	28.3	25.2	22.6	20.4	18.7	17.3	16.2	15.2	14.5	14.1	13.6	13.4	13.1				
125	51.3	43.3	37.0	32.1	28.2	25.2	22.8	20.9	19.4	18.3	17.5	16.8	16.3	16.1	15.7				
130	68.3	56.7	47.6	40.7	35.3	31.2	27.9	25.4	23.5	22.2	21.0	20.2	19.6	19.2	18.9				
135	88.5	73.2	61.3	52.0	44.7	39.1	34.8	31.6	29.1	27.0	25.6	24.5	23.9	23.2	22.8				
140	115	95.0	79.2	67.0	57.5	50.2	44.5	40.0	36.4	33.8	31.9	30.6	29.4	28.5	28.1				
145	147	122	103	87.2	75.0	65.2	57.5	51.6	47.1	43.7	41.2	39.1	37.3	36.2	35.7				
150	183	155	131	112	97.3	85.4	76.0	68.7	62.9	58.6	54.8	51.5	49.3	47.9	47.2				
155	222	192	166	145	128	114	103	93.7	86.6	79.9	74.7	70.7	67.9	66.1	65.3				
160	266	237	212	189	171	155	141	129	119	111	105	100	96.8	94.6	93.6				
165	315	289	265	242	223	205	191	178	167	159	152	146	142	140	139				
170	352	334	316	300	284	270	258	247	238	230	223	218	214	211	210				
175	392	382	373	364	356	349	341	335	329	325	321	317	315	314	313				
180	432	432	432	432	432	432	432	432	432	432	432	432	432	432	432				

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2020-12-22

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:10.237m [K=1.0000]
 Remarks: