



IES INDOOR REPORT

PHOTOMETRIC FILENAME : EWL-LED-UNV-WHT_SINGLE_HEAD_TEST.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]ITL88650-GONIOPHOTOMETRY

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]12/02/16

[ISSUE DATE]04/29/2018

[MANUFACT]LSI INDUSTRIES, INC

[LUMCAT]EWL-LED-UNV_Single_Head_Test

[LUMINAIRE]MOLDED WHITE PLASTIC HOUSING WITH 2 MOLDED WHITE PLASTIC

[MORE]SWIVEL HEAD ASSEMBLIES, EACH HEAD ASSEMBLY CONSISTS OF: ONE

[MORE]CIRCUIT BOARD WITH 15 LEDS, MOLDED PLASTIC REFLECTOR WITH

[MORE]SPECULAR FINISH AND 1 APERTURE PER LED, CLEAR RECTANGULAR

[MORE]PRISMATIC PLASTIC LENS. LENS PRISMS IN AND PARALLEL WITH THE

[MORE]0-DEGREE PLANE. ONLY ONE HEAD ASSEMBLY ENERGIZED FOR THIS TEST.

[MORE]HEAD ASSEMBLY AIMED AT NADIR FOR THIS TEST.

[LAMP]FIFTEEN WHITE LIGHT EMITTING DIODES (LEDS), VERTICAL BASE-UP

[MORE]POSITION.

[OTHER]INPUT ELECTRICAL: 9.60 VOLTS, 1.21 WATTS, 0.126 AMPS

[_ MOUNTING]SURFACE

[_ LEDDRIVER]PACE ELECTRONICS PROPRIETARY

[_ NOTE]DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT CLIENT

[MORE]REQUESTED INPUT VOLTAGE (9.6VDC) TO THE DRIVER. DRIVER

[MORE]INFORMATION PROVIDED BY CLIENT.

[OTHER]TEST PROCEDURE: IESNA LM-79-08

[OTHER]TEST DISTANCE = 20.0 FEET

[_ SEARCH_SOURCETYPE] LED

[_ SEARCH_APPLICATION] Indoor

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	120
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	1.21
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.42
Spacing Criterion (90-270)	0.66
Spacing Criterion (Diagonal)	0.54
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.34 ft (Diameter)
Luminous Width (90-270)	0.34 ft (Diameter)
Luminous Height	0.02 ft

IES INDOOR REPORT
PHOTOMETRIC FILENAME : EWL-LED-UNV-WHT_SINGLE_HEAD_TEST.IES

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	798	1277	1755
55	384	576	769
65	251	251	502
75	379	379	379
85	0	0	0

IES INDOOR REPORT
PHOTOMETRIC FILENAME : EWL-LED-UNV-WHT_SINGLE_HEAD_TEST.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	285	285	285	285	285
0.5	285	285	285	285	285
1.0	283	283	284	285	286
1.5	281	281	283	285	286
2.0	278	278	281	284	286
2.5	275	276	279	284	286
3.0	272	273	276	282	286
3.5	268	270	275	282	287
4.0	263	266	274	282	287
4.5	260	264	273	281	286
5.0	254	259	270	279	286
5.5	248	254	267	277	284
6.0	242	249	264	275	282
6.5	235	244	259	273	280
7.0	228	238	255	271	279
7.5	220	231	249	268	277
8.0	213	224	244	265	275
8.5	205	217	239	261	273
9.0	197	210	232	258	271
9.5	189	202	227	254	269
10.0	181	195	221	249	267
11.0	162	179	209	238	257
11.5	154	171	202	232	249
12.0	147	163	195	226	242
12.5	140	156	188	220	235
13.0	134	150	180	213	229
13.5	129	142	172	205	223
14.0	123	135	165	198	217
14.5	117	129	157	190	211
15.0	112	122	150	183	204
16.0	103	111	137	169	190
17.0	93	100	124	155	178
18.0	85	92	112	143	164
19.0	77	84	101	131	151
20.0	71	76	91	120	139
22.5	55	60	71	97	108
25.0	42	47	56	74	80
27.5	33	37	45	57	60
30.0	26	28	37	44	46
32.5	21	21	29	36	38
35.0	16	17	22	29	29
37.5	12	13	16	22	23
40.0	9	10	12	17	18
42.5	6	8	10	13	14
45.0	5	6	8	10	11
47.5	4	5	6	8	9
50.0	3	4	4	6	6
52.5	3	3	4	4	5
55.0	2	2	3	3	4
57.5	2	2	2	3	3
60.0	2	2	2	2	2
62.5	1	1	2	2	2
65.0	1	1	1	1	2
67.5	1	1	1	1	1

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CANDELA TABULATION - (Cont.)

70.0	1	1	1	1	1
72.5	1	1	1	1	1
75.0	1	1	1	1	1
77.5	0	0	0	0	0
80.0	0	0	0	0	0
82.5	0	0	0	0	0
85.0	0	0	0	0	0
87.5	0	0	0	0	0
90.0	0	0	0	0	0
92.5	0	0	0	0	0
95.0	0	0	0	0	0
97.5	0	0	0	0	0
100.0	0	0	0	0	0
102.5	0	0	0	0	0
105.0	0	0	0	0	0
107.5	0	0	0	0	0
110.0	0	0	0	0	0
112.5	0	0	0	0	0
115.0	0	0	0	0	0
117.5	0	0	0	0	0
120.0	0	0	0	0	0
122.5	0	0	0	0	0
125.0	0	0	0	0	0
127.5	0	0	0	0	0
130.0	0	0	0	0	0
132.5	0	0	0	0	0
135.0	0	0	0	0	0
137.5	0	0	0	0	0
140.0	0	0	0	0	0
142.5	0	0	0	0	0
145.0	0	0	0	0	0
147.5	0	0	0	0	0
150.0	0	0	0	0	0
152.5	0	0	0	0	0
155.0	0	0	0	0	0
157.5	0	0	0	0	0
160.0	0	0	0	0	0
162.5	0	0	0	0	0
165.0	0	0	0	0	0
167.5	0	0	0	0	0
170.0	0	0	0	0	0
172.5	0	0	0	0	0
175.0	0	0	0	0	0
177.5	0	0	0	0	0
180.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	66.44	N.A.	55.40
0-30	94.58	N.A.	78.80
0-40	108.95	N.A.	90.80
0-60	118.06	N.A.	98.40
0-80	120.01	N.A.	100.00
0-90	120.01	N.A.	100.00
10-90	95.83	N.A.	79.90
20-40	42.50	N.A.	35.40
20-50	48.90	N.A.	40.70
40-70	10.41	N.A.	8.70
60-80	1.95	N.A.	1.60
70-80	0.66	N.A.	0.50
80-90	0.00	N.A.	0.00
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	120.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	24.17
10-20	42.27
20-30	28.13
30-40	14.37
40-50	6.40
50-60	2.71
60-70	1.30
70-80	0.66
80-90	0.00
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

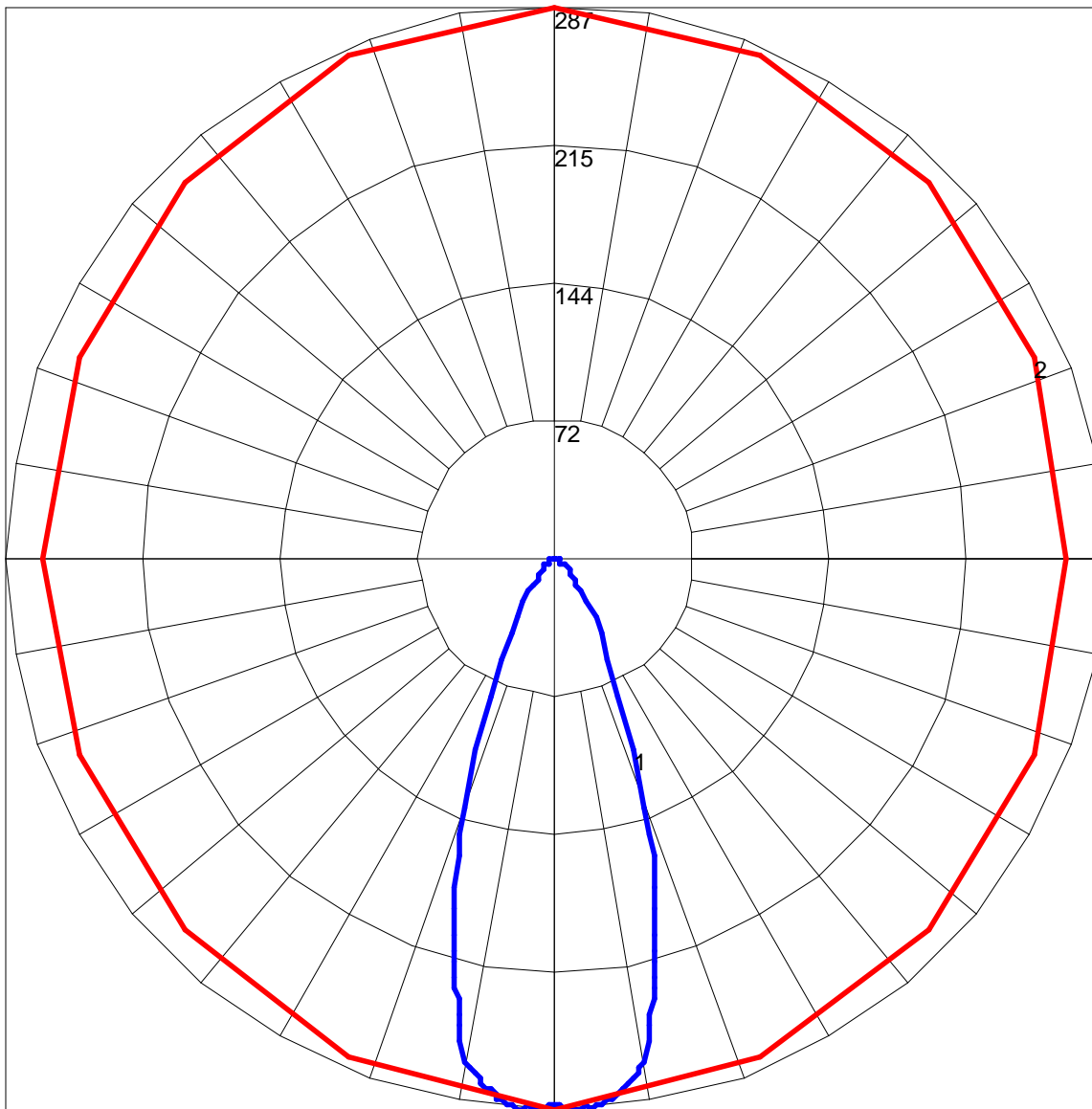
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	109	104	100	97	107	102	99	96	99	96	94	96	94	92	94	92	90	89
3	104	98	93	90	102	97	92	89	94	90	88	92	89	86	89	87	85	83
4	99	92	87	83	98	91	87	83	89	85	82	87	84	81	85	82	80	79
5	95	87	82	78	93	86	82	78	85	80	77	83	79	76	82	78	76	74
6	91	83	78	74	90	82	77	73	81	76	73	79	75	72	78	75	72	71
7	87	79	74	70	86	78	73	70	77	73	69	76	72	69	75	71	69	67
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64
9	81	72	67	63	80	72	67	63	71	66	63	70	66	63	69	65	62	61
10	78	69	64	60	77	69	64	60	68	63	60	67	63	60	66	63	60	59

POLAR GRAPH



Maximum Candela = 287 Located At Horizontal Angle = 90, Vertical Angle = 3.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (3.5) (Through Max. Cd.)