



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]ITL68065

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]04/11/11

[ISSUE DATE]04/29/2018

[MANUFACT]LSI INDUSTRIES, INC

[LUMCAT]EAR-LED-UNV-WHT_Single_Head_Test

[LUMINAIRE]MOLDED WHITE PLASTIC HOUSING, TWO MOLDED WHITE PLASTIC SWIVEL

[MORE]HEAD ASSEMBLIES, EACH HEAD ASSEMBLY CONSISTS OF: MOLDED WHITE

[MORE]PLASTIC HOUSING, ONE CIRCUIT BOARD WITH 12 LEDS, MOLDED

[MORE]PLASTIC REFLECTOR WITH SPECULAR FINISH AND ONE APERTURE PER

[MORE]LED, CLEAR PRISMATIC PLASTIC LENS. ONLY ONE HEAD ASSEMBLY

[MORE]ENERGIZED FOR THIS TEST.

[LAMP]TWELVE WHITE LIGHT EMITTING DIODES (LEDS) EACH WITH CLEAR

[MORE]CYLINDRICAL INTEGRAL LENS WITH HEMISPHERICAL END, VERTICAL

[MORE]BASE-UP POSITION.

[OTHER]TOTAL INPUT WATTS = 1.77 AT 3.60 VOLTS DC

[_ MOUNTING]SURFACE

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

[MORE]REQUESTED INPUT VOLTAGE (3.6VDC) TO THE LAMP ASSEMBLY.

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

[OTHER]TEST DISTANCE = 25.25 FEET

[_ SEARCH_SOURCETYPE] LED

[_ SEARCH_APPLICATION] Indoor

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	76
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	43
Total Luminaire Watts	1.77
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.50
Spacing Criterion (90-270)	0.50
Spacing Criterion (Diagonal)	0.56
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.24 ft (Diameter)
Luminous Width (90-270)	0.24 ft (Diameter)
Luminous Height	0.04 ft

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1277	1277	1304
55	376	376	376
65	192	192	192
75	103	103	103
85	83	83	83

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	175.1	175.1	175.1	175.1	175.1
0.5	175.2	175.1	175.1	175.1	175.1
1.0	175.1	174.9	174.9	175.0	175.1
1.5	174.8	174.9	175.0	175.1	175.2
2.0	174.5	174.6	174.9	174.8	175.0
2.5	173.9	174.3	174.6	174.4	174.5
3.0	173.1	173.8	173.9	173.8	173.7
3.5	171.8	172.8	172.9	172.7	172.5
4.0	170.3	171.4	171.6	171.0	171.2
4.5	168.7	169.4	169.9	169.5	169.2
5.0	166.5	167.0	167.7	167.7	166.9
5.5	164.1	164.7	165.7	165.6	164.6
6.0	161.0	162.3	163.3	163.3	161.9
6.5	158.4	159.8	160.6	161.0	159.2
7.0	155.5	157.2	157.9	158.1	155.9
7.5	152.3	154.2	155.2	155.2	152.7
8.0	149.1	151.1	151.9	152.0	149.7
8.5	145.7	147.7	148.9	148.8	146.5
9.0	141.9	144.0	145.4	145.2	142.9
9.5	137.6	140.0	141.9	141.5	139.3
10.0	133.0	135.7	138.2	137.4	134.7
11.0	122.8	126.5	130.6	128.0	124.5
12.0	112.1	116.9	121.6	117.4	112.8
13.0	102.4	106.7	112.4	106.9	101.8
14.0	93.0	97.0	102.5	96.5	91.6
15.0	84.9	88.4	92.9	87.0	83.3
16.0	77.0	80.5	84.0	79.2	76.3
17.0	70.6	73.7	76.3	73.0	70.1
18.0	65.4	67.6	69.5	67.5	64.9
19.0	60.9	62.4	64.1	62.7	60.6
20.0	57.1	58.2	59.4	58.2	56.7
22.5	49.1	49.6	49.8	49.3	48.9
25.0	41.8	42.1	41.8	42.1	41.0
27.5	35.4	34.9	35.1	34.8	34.2
30.0	29.2	28.6	28.5	28.4	28.8
32.5	23.0	22.9	22.0	23.2	23.8
35.0	18.9	17.5	17.4	18.1	19.0
37.5	13.4	12.6	13.6	13.2	13.6
40.0	9.5	8.9	9.5	9.0	9.9
42.5	6.3	6.2	6.4	6.0	6.3
45.0	4.7	4.4	4.7	4.5	4.8
47.5	3.0	2.9	3.3	3.0	3.2
50.0	2.2	2.1	2.3	2.2	2.5
52.5	1.6	1.6	1.7	1.7	1.7
55.0	1.2	1.2	1.2	1.3	1.2
57.5	0.8	0.9	0.9	1.0	0.9
60.0	0.7	0.7	0.7	0.7	0.7
62.5	0.6	0.5	0.6	0.6	0.6
65.0	0.5	0.4	0.5	0.4	0.5
67.5	0.4	0.4	0.4	0.4	0.4
70.0	0.3	0.3	0.3	0.3	0.3
72.5	0.3	0.3	0.3	0.3	0.2
75.0	0.2	0.2	0.2	0.2	0.2
77.5	0.2	0.2	0.2	0.2	0.2

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CANDELA TABULATION - (Cont.)

80.0	0.2	0.2	0.2	0.1	0.2
82.5	0.1	0.1	0.1	0.1	0.1
85.0	0.1	0.1	0.1	0.1	0.1
87.5	0.1	0.1	0.1	0.1	0.1
90.0	0.0	0.1	0.1	0.1	0.1
92.5	0.0	0.0	0.1	0.1	0.0
95.0	0.0	0.0	0.0	0.0	0.0
97.5	0.0	0.0	0.0	0.0	0.0
100.0	0.0	0.0	0.0	0.0	0.0
102.5	0.0	0.0	0.0	0.0	0.0
105.0	0.0	0.0	0.0	0.0	0.0
107.5	0.0	0.0	0.0	0.0	0.0
110.0	0.0	0.0	0.0	0.0	0.0
115.0	0.0	0.0	0.0	0.0	0.0
120.0	0.0	0.0	0.0	0.0	0.0
125.0	0.0	0.0	0.0	0.0	0.0
130.0	0.0	0.0	0.0	0.0	0.0
135.0	0.0	0.0	0.0	0.0	0.0
140.0	0.0	0.0	0.0	0.0	0.0
145.0	0.0	0.0	0.0	0.0	0.0
150.0	0.0	0.0	0.0	0.0	0.0
155.0	0.0	0.0	0.0	0.0	0.0
160.0	0.0	0.0	0.0	0.0	0.0
165.0	0.0	0.0	0.0	0.0	0.0
170.0	0.0	0.0	0.0	0.0	0.0
175.0	0.0	0.0	0.0	0.0	0.0
180.0	0.0	0.0	0.0	0.0	0.0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	39.74	N.A.	52.30
0-30	58.96	N.A.	77.60
0-40	70.19	N.A.	92.40
0-60	75.09	N.A.	98.90
0-80	75.81	N.A.	99.80
0-90	75.93	N.A.	100.00
10-90	60.96	N.A.	80.30
20-40	30.46	N.A.	40.10
20-50	34.19	N.A.	45.00
40-70	5.38	N.A.	7.10
60-80	0.72	N.A.	0.90
70-80	0.24	N.A.	0.30
80-90	0.12	N.A.	0.20
90-110	0.03	N.A.	0.00
90-120	0.03	N.A.	0.00
90-130	0.03	N.A.	0.00
90-150	0.03	N.A.	0.00
90-180	0.03	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	75.96	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	14.97
10-20	24.76
20-30	19.22
30-40	11.23
40-50	3.73
50-60	1.17
60-70	0.48
70-80	0.24
80-90	0.12
90-100	0.03
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

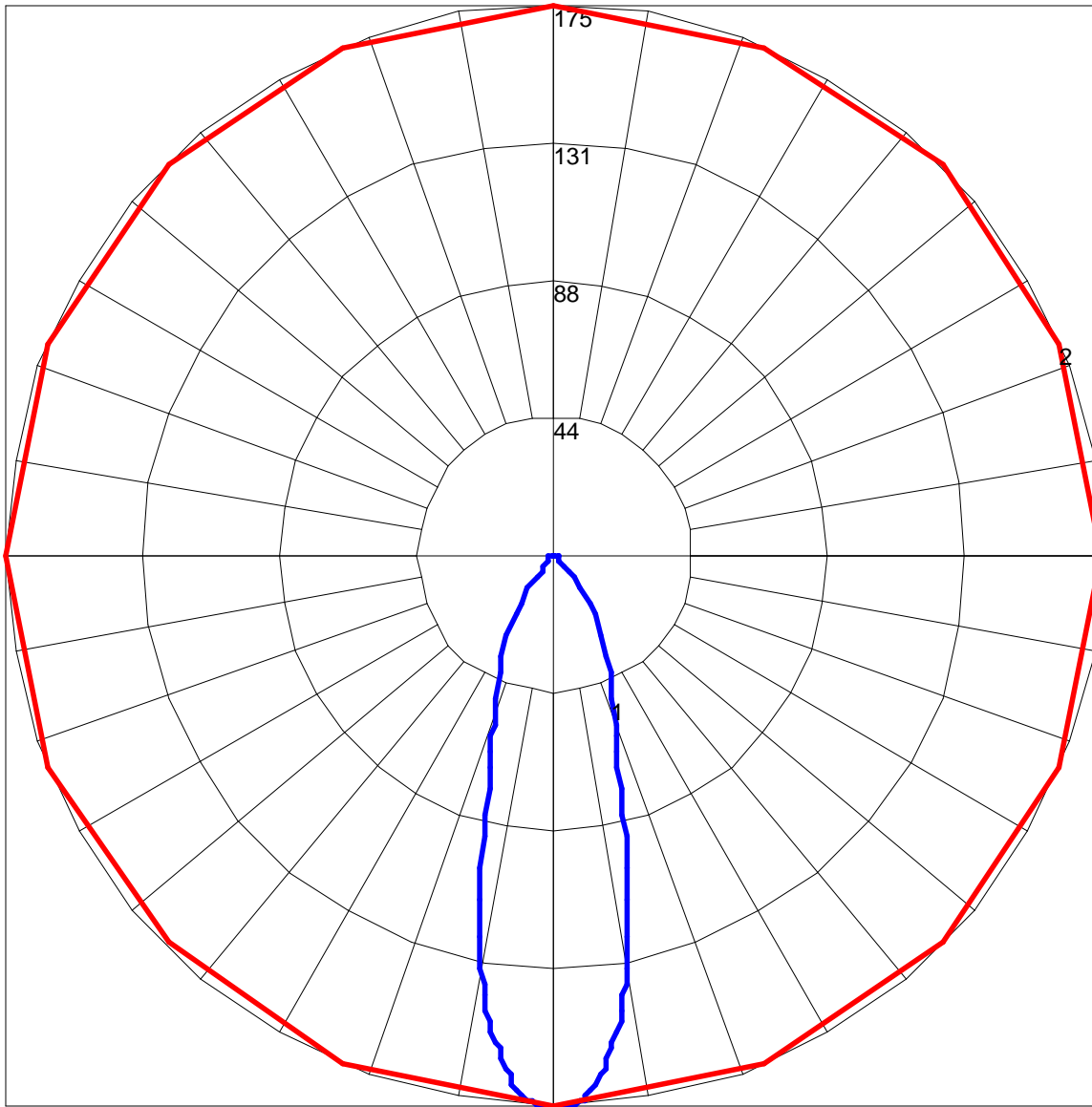
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	96	92	89	94	90	87	92	89	86	89	87	85	83
4	99	92	87	83	97	91	86	83	89	85	82	87	84	81	85	82	80	79
5	95	87	82	78	93	86	81	78	85	80	77	83	79	76	81	78	76	74
6	91	83	77	73	89	82	77	73	80	76	73	79	75	72	78	74	72	70
7	87	79	73	69	86	78	73	69	77	72	69	76	71	68	75	71	68	67
8	83	75	69	66	82	74	69	66	73	69	65	72	68	65	71	68	65	64
9	80	71	66	63	79	71	66	62	70	65	62	69	65	62	68	65	62	61
10	77	68	63	60	76	68	63	60	67	63	59	66	62	59	66	62	59	58

POLAR GRAPH



Maximum Candela = 175.2 Located At Horizontal Angle = 0, Vertical Angle = .5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)