IES INDOOR REPORT
PHOTOMETRIC FILENAME : EWC-LED-R-UNV-WHT_SINGLE_HEAD_TEST.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ITL86619
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]01/27/16
[ISSUEDATE]04/29/2018
[MANUFAC]LSI INDUSTRIES, INC
[LUMCAT]EWC-LED-R-UNV-WHT_Single_Head_Test
[LUMINAIRE]ONE 12.625" X 8.125" MOLDED WHITE PLASTIC SINGLE FACE EXIT
[MORE]SIGN WITH 2 MOLDED WHITE PLASTIC SWIVEL HEAD ASSEMBLIES, EACH
[MORE]HEAD ASSEMBLY CONSISTS OF: ONE CIRCUIT BOARD WITH 12 LEDS,
[MORE]MOLDED PLASTIC REFLECTOR WITH SPECULAR FINISH AND 1 APERTURE
[MORE]PER LED, CLEAR PRISMATIC PLASTIC LENS. BOTH SWIVEL HEAD
[MORE]ASSEMBLIES AND ALL 10 INTERIOR LEDS WERE ILLUMINATED FOR THIS
[MORE]TEST. ONLY ONE LIGHT HEAD WAS MEASURED FOR LIGHT OUTPUT.
[LAMP]TWELVE WHITE LIGHT EMITTING DIODES (LEDS) EACH WITH CLEAR
[MORE]CYLINDRICAL INTEGRAL LENS WITH HEMISPHERICAL END, VERTICAL
[MORE]BASE-UP POSITION.
[OTHER]INPUT ELECTRICAL: 3.60 VOLTS, 2.33 WATTS, 0.646 AMPS
[_MOUNTING]SURFACE
[_LEDDRIVER]PACE ELECTRONICS PROPRIETARY
[_NOTE]DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT CLIENT
[MORE]REQUESTED INPUT VOLTAGE (3.6VDC) 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	85
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	37
Total Luminaire Watts	2.33
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.74
Spacing Criterion (90-270)	0.74
Spacing Criterion (Diagonal)	0.74
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.28 ft (Diameter)
Luminous Width (90-270)	0.28 ft (Diameter)
Luminous Height	0.03 ft

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1977	1977	1977
55	649	649	649
65	357	357	357
75	271	271	271
85	156	156	156

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CANDELA TABULATION

	0
0.0	115.9
2.5	117.0
5.0	115.7
7.5	109.9
10.0	105.7
12.5	99.6
15.0	91.3
17.5	82.1
20.0	70.6
22.5	60.2
25.0	51.1
27.5	41.8
30.0	34.5
32.5	28.6
35.0	23.1
37.5	18.6
40.0	15.0
42.5	11.8
45.0	8.9
47.5	6.4
50.0	4.7
52.5	3.5
55.0	2.5
57.5	2.0
60.0	1.6
62.5	1.3
65.0	1.1
67.5	0.9
70.0	0.7
72.5	0.6
75.0	0.6
77.5	0.4
80.0	0.4
82.5	0.3
85.0	0.2
87.5	0.3
90.0	0.1
92.5	0.1
95.0	0.1
97.5	0.1
100.0	0.0
102.5	0.0
105.0	0.0
107.5	0.0
110.0	0.0
112.5	0.0
115.0	0.0
117.5	0.0
120.0	0.0
122.5	0.0
125.0	0.0
127.5	0.0
130.0	0.0
132.5	0.0

CANDELA TABULATION - (Cont.)

135.0	0.0
137.5	0.0
140.0	0.0
142.5	0.0
145.0	0.0
147.5	0.0
150.0	0.0
152.5	0.0
155.0	0.0
157.5	0.0
160.0	0.0
162.5	0.0
165.0	0.0
167.5	0.0
170.0	0.0
172.5	0.0
175.0	0.0
177.5	0.0
180.0	0.0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	35.73	N.A.	41.90
0-30	59.04	N.A.	69.20
0-40	73.72	N.A.	86.40
0-60	83.24	N.A.	97.60
0-80	84.91	N.A.	99.60
0-90	85.19	N.A.	99.90
10-90	74.55	N.A.	87.40
20-40	37.99	N.A.	44.50
20-50	45.03	N.A.	52.80
40-70	10.62	N.A.	12.50
60-80	1.67	N.A.	2.00
70-80	0.57	N.A.	0.70
80-90	0.29	N.A.	0.30
90-110	0.10	N.A.	0.10
90-120	0.10	N.A.	0.10
90-130	0.10	N.A.	0.10
90-150	0.10	N.A.	0.10
90-180	0.10	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	85.29	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	10.64
10-20	25.09
20-30	23.30
30-40	14.69
40-50	7.04
50-60	2.47
60-70	1.10
70-80	0.57
80-90	0.29
90-100	0.10
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	117	117	117	117	111	111	111	107	107	107	102	102	102	100
1	114	111	108	106	111	108	106	104	104	102	101	101	99	98	97	96	95	93
2	108	103	98	95	105	101	97	94	98	94	92	95	92	90	92	90	88	86
3	102	95	90	86	100	94	89	85	91	87	84	89	86	83	87	84	81	80
4	97	89	83	79	95	88	83	79	86	81	78	84	80	77	82	78	76	74
5	92	83	77	73	90	82	77	73	81	76	72	79	75	71	77	74	71	69
6	87	78	72	68	86	77	72	68	76	71	67	75	70	67	73	69	66	65
7	83	74	68	63	82	73	67	63	72	67	63	70	66	62	69	65	62	61
8	79	70	64	59	78	69	63	59	68	63	59	67	62	59	66	62	58	57
9	76	66	60	56	74	65	60	56	64	59	56	63	59	55	63	58	55	54
10	72	62	57	53	71	62	56	53	61	56	52	60	56	52	60	55	52	51

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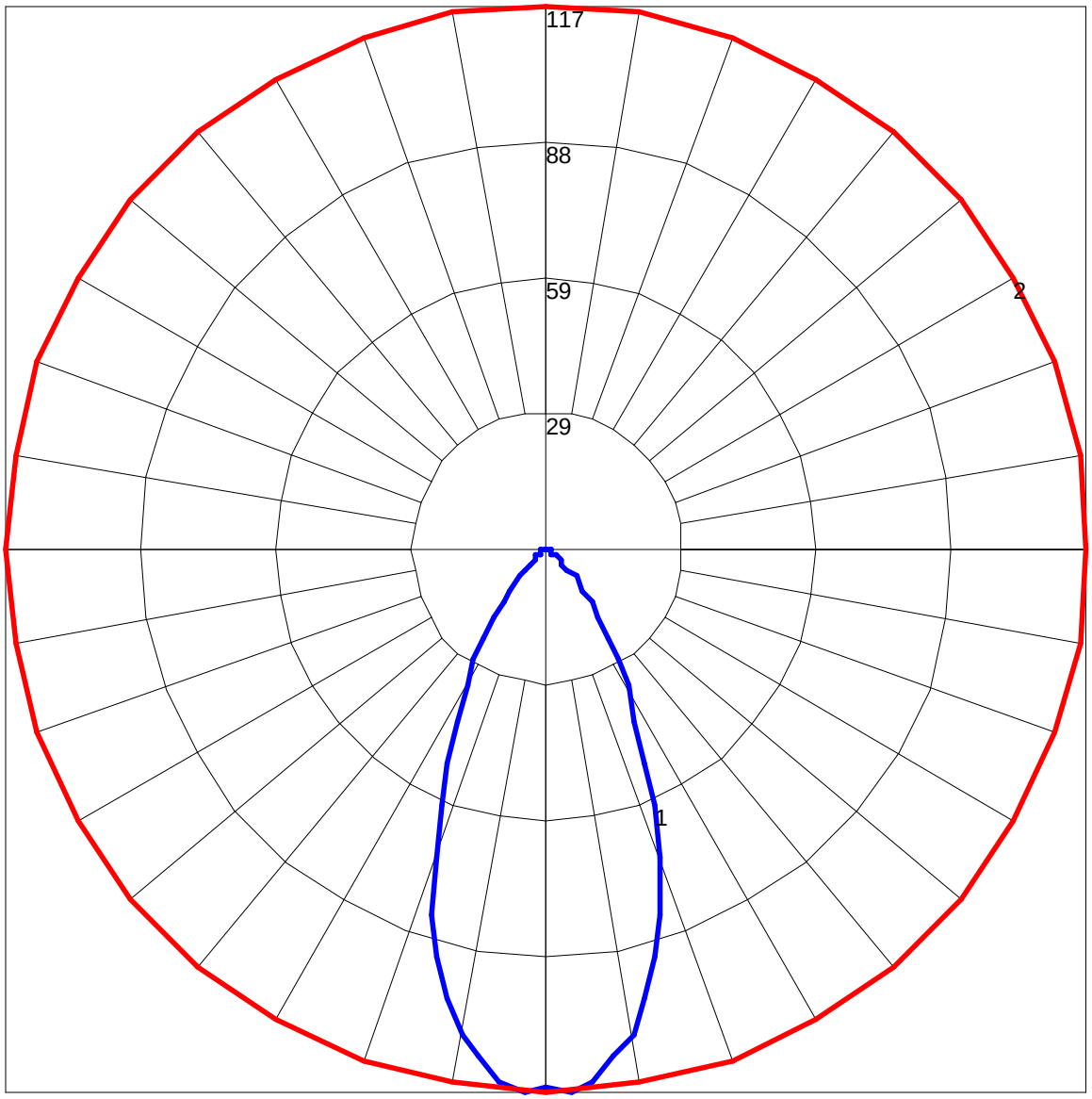
POLAR GRAPH



Maximum Candela = 117 Located At Horizontal Angle = 0, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)