IES INDOOR REPORT
PHOTOMETRIC FILENAME : EPC.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ITL81832
[TESTLAB]BEGHELLI
[ISSUEDATE]06/02/14
[MANUFAC]BEGHELLI
[LUMCAT] EPC
[LUMINAIRE]MOLDED WHITE PLASTIC HOUSING, TWO MOLDED WHITE PLASTIC
[MORE]SWIVEL HEAD ASSEMBLIES, EACH HEAD ASSEMBLY CONSISTS OF: ONE
[MORE]CIRCUIT BOARD WITH 1 LED, MOLDED CLEAR PLASTIC LENS WITH
[MORE]CONCENTRIC CIRCULAR EXTERIOR PERIMETER PRISMS AND CLEAR CONICAL
[MORE]OPTIC BELOW LED WITH RECESSED TOP CENTER. ONLY ONE HEAD
[MORE]ASSEMBLY ENERGIZED FOR THIS TEST.
[LAMP]ONE WHITE LIGHT EMITTING DIODE (LED), VERTICAL BASE-UP
[MORE]POSITION.
[OTHER]TOTAL INPUT WATTS = 0.484 AT 3.6 VOLTS DC
[_MOUNTING]SURFACE
[_LEDDRIVER]BEST LIGHTING PROPRIETARY
[_NOTE]DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT
[MORE]VOLTAGE (3.6VDC) TO THE LED DRIVER. LED DRIVER INFORMATION
[MORE]PROVIDED BY CLIENT. THE SWIVEL HEAD ASSEMBLY WAS SET IN A
[MORE]CLIENT REQUESTED POSITION WHICH IS APPROXIMATELY AIMED
[MORE]30-DEGREES BELOW THE HORIZON AND CANTED APPROXIMATELY
[MORE]45-DEGREES FROM STRAIGHT AHEAD WHEN LUMINAIRE IS IN THE
[MORE]VERTICAL AND LEVEL POSITION. FOR THIS TEST THE LUMINAIRE WAS
[MORE]POSITIONED TO PLACE THE LED IN THE VERTICAL BASE-UP POSITION
[MORE](AIMED TOWARDS NADIR).
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[OTHER]TEST DISTANCE = 20.0 FEET
[_ABSOLUTELUMENS]41.6

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	42
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	86
Total Luminaire Watts	0.484
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.18
Spacing Criterion (90-270)	0.18
Spacing Criterion (Diagonal)	0.20
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.16 ft (Diameter)
Luminous Width (90-270)	0.16 ft (Diameter)
Luminous Height	0.01 ft

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3498	3498	3498
55	4208	4208	4208
65	2195	2195	2195
75	1650	1650	1650
85	0	0	0

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CANDELA TABULATION

	0
0.0	475
0.5	468
1.0	457
1.5	439
2.0	418
2.5	391
3.0	363
3.5	333
4.0	301
4.5	271
5.0	242
5.5	214
6.0	188
6.5	163
7.0	141
7.5	121
8.0	104
8.5	88
9.0	74
9.5	63
10.0	53
11.0	39
11.5	34
12.0	29
12.5	26
13.0	23
13.5	21
14.0	19
14.5	17
15.0	16
16.0	14
17.0	12
18.0	11
19.0	10
20.0	10
22.5	9
25.0	8
27.5	8
30.0	8
32.5	7
35.0	7
37.5	6
40.0	6
42.5	6
45.0	5
47.5	5
50.0	5
52.5	5
55.0	5
57.5	5
60.0	4
62.5	3
65.0	2
67.5	1

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CANDELA TABULATION - (Cont.)

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

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	21.94	N.A.	52.80
0-30	25.84	N.A.	62.10
0-40	30.06	N.A.	72.30
0-60	38.58	N.A.	92.80
0-80	41.59	N.A.	100.00
0-90	41.59	N.A.	100.00
10-90	24.89	N.A.	59.90
20-40	8.12	N.A.	19.50
20-50	12.27	N.A.	29.50
40-70	10.60	N.A.	25.50
60-80	3.01	N.A.	7.20
70-80	0.92	N.A.	2.20
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	41.59	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	16.69
10-20	5.24
20-30	3.91
30-40	4.22
40-50	4.15
50-60	4.37
60-70	2.09
70-80	0.92
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	118	118	118	118	115	115	115	115	110	110	110	105	105	105	101	101	101	99
1	112	109	106	104	109	107	104	102	103	101	99	99	97	96	96	94	93	91
2	106	101	96	93	104	99	95	92	96	92	90	93	90	88	90	88	86	84
3	100	94	88	84	98	92	87	83	90	85	82	87	84	81	85	82	80	78
4	95	88	82	78	94	87	81	77	84	80	76	82	79	75	81	77	75	73
5	91	83	77	73	89	82	76	72	80	75	72	78	74	71	77	73	70	69
6	87	79	73	69	86	78	72	68	76	72	68	75	71	67	74	70	67	66
7	84	75	69	65	83	74	69	65	73	68	65	72	68	64	71	67	64	63
8	81	72	67	63	80	72	66	63	70	66	62	70	65	62	69	65	62	60
9	78	70	64	60	77	69	64	60	68	63	60	67	63	60	66	63	60	59
10	76	67	62	59	75	67	62	58	66	62	58	65	61	58	65	61	58	57

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UGR TABLE - CORRECTED

Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	15.8	17.1	16.2	17.4	17.7	15.8	17.1	16.2	17.4	17.7
	3H	15.9	17.0	16.3	17.4	17.7	15.9	17.0	16.3	17.4	17.7
	4H	16.1	17.1	16.5	17.5	17.9	16.1	17.1	16.5	17.5	17.9
	6H	16.3	17.2	16.7	17.6	18.0	16.3	17.2	16.7	17.6	18.0
	8H	16.2	17.1	16.7	17.5	17.9	16.2	17.1	16.7	17.5	17.9
	12H	16.2	17.0	16.6	17.4	17.8	16.2	17.0	16.6	17.4	17.8
4H	2H	15.9	16.9	16.3	17.3	17.6	15.9	16.9	16.3	17.3	17.6
	3H	16.1	16.9	16.5	17.3	17.7	16.1	16.9	16.5	17.3	17.7
	4H	16.3	17.1	16.8	17.5	18.0	16.3	17.1	16.8	17.5	18.0
	6H	16.6	17.2	17.0	17.7	18.1	16.6	17.2	17.0	17.7	18.1
	8H	16.5	17.1	17.0	17.6	18.1	16.5	17.1	17.0	17.6	18.1
	12H	16.5	17.0	17.0	17.5	18.0	16.5	17.0	17.0	17.5	18.0
8H	4H	16.4	17.0	16.9	17.5	18.0	16.4	17.0	16.9	17.5	18.0
	6H	16.6	17.1	17.1	17.6	18.1	16.6	17.1	17.1	17.6	18.1
	8H	16.6	17.0	17.1	17.5	18.0	16.6	17.0	17.1	17.5	18.0
	12H	16.5	16.9	17.0	17.4	18.0	16.5	16.9	17.0	17.4	18.0
12H	4H	16.4	16.9	16.9	17.4	17.9	16.4	16.9	16.9	17.4	17.9
	6H	16.6	17.0	17.1	17.5	18.0	16.6	17.0	17.1	17.5	18.0
	8H	16.5	16.9	17.0	17.4	18.0	16.5	16.9	17.0	17.4	18.0

Maximum UGR = 18.1

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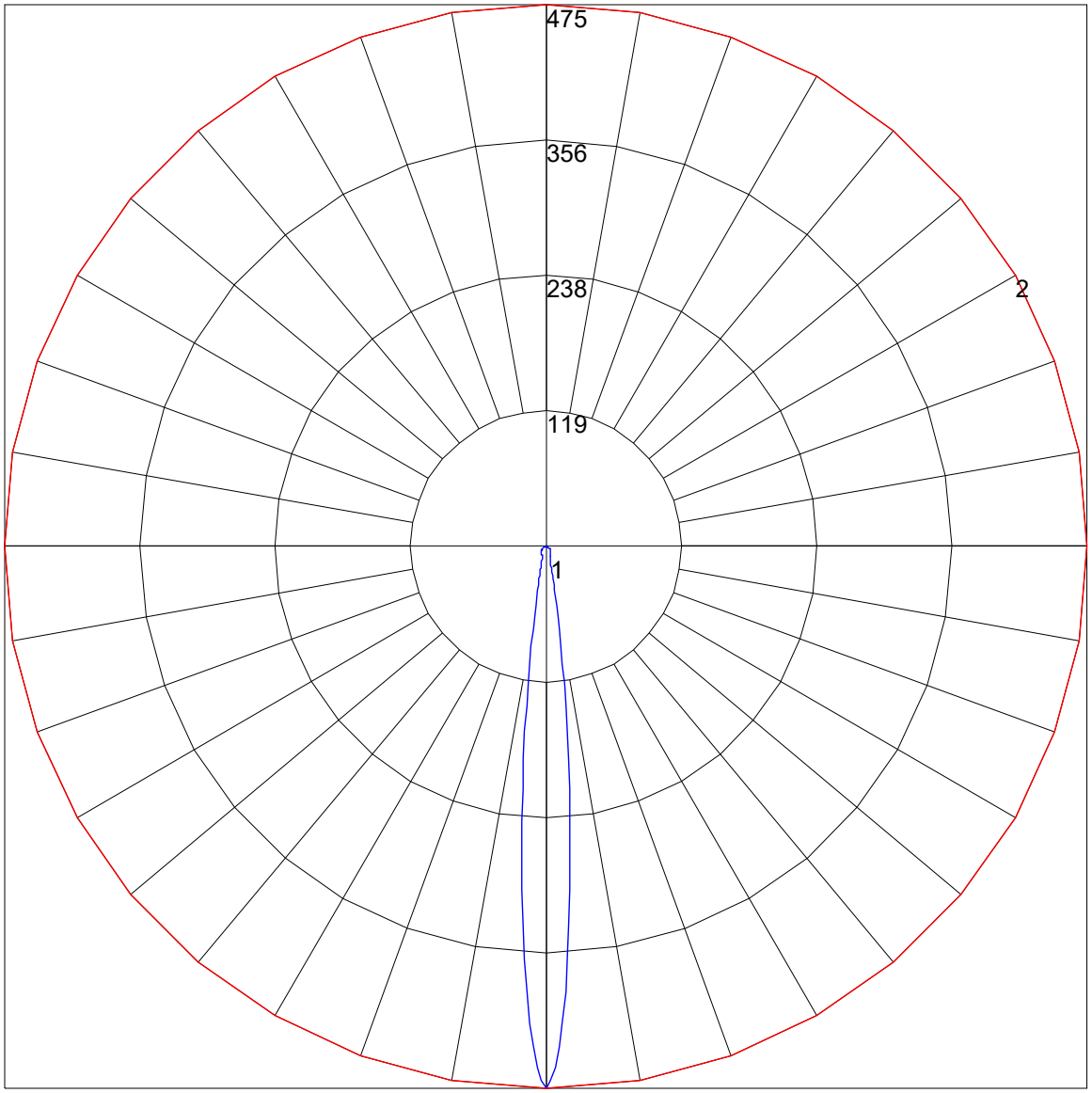
POLAR GRAPH



Maximum Candela = 475 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)