

IES INDOOR REPORT
PHOTOMETRIC FILENAME : EPE.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ITL94628-GONIOPHOTOMETRY
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[ISSUE DATE]03/31/21
[MANUFAC]BEGHELLI
[LUMCAT] EPE
[LUMINAIRE]ONE 12" X 8" MOLDED IVORY PLASTIC SINGLE FACE EXIT SIGN WITH TWO
[MORE]MOLDED IVORY PLASTIC SWIVEL HEAD ASSEMBLIES, EACH HEAD ASSEMBLY
[MORE]CONSISTS OF: ONE CIRCUIT BOARD WITH 3 LEDS, CLEAR LINEAR PRISMATIC LENS
[MORE]WITH CONCENTRIC CIRCULAR PERIMETER PRISMS AND ONE CONICAL OPTIC PER
[MORE]LED. LENS PRISMS OUT AND LINEAR PRISMS PARALLEL WITH THE 0-DEGREE
[MORE]PLANE. BOTH SWIVEL HEAD ASSEMBLIES AND ALL 6 INTERIOR LEDS FOR THE EXIT
[MORE]SIGN WERE ON FOR THIS TEST. ONLY ONE LIGHT HEAD WAS MEASURED FOR LIGHT
[MORE]OUTPUT.
[LAMP]THREE WHITE LIGHT EMITTING DIODES (LEDS), VERTICAL BASE-UP POSITION.
[MOUNTING]SURFACE
[NOTE]DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT CLIENT REQUESTED
[MORE]INPUT VOLTAGE (3.6VDC) TO THE DRIVER. DRIVER INFORMATION PROVIDED BY
[MORE]CLIENT. FOR THIS TEST THE LIGHT HEAD WAS ORIENTED TO PLACE THE LEDS IN
[MORE]THE VERTICAL BASE-UP POSITION (AIMED TOWARDS NADIR).
[INPUT _ELECTRICAL]3.60 VOLTS, 1.65 WATTS, 0.459 AMPS
[OTHER]TEST PROCEDURE: IESNA LM-79-19
[OTHER]TEST DISTANCE = 20.0 FEET
[TEMPO]AMBIENT: 24.2
[ABSOLUTE LUMENS]76.9

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	77
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	47
Total Luminaire Watts	1.65
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.82
Spacing Criterion (90-270)	0.26
Spacing Criterion (Diagonal)	0.38
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.17 ft (Diameter)
Luminous Width (90-270)	0.17 ft (Diameter)
Luminous Height	0.00 ft

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	10456	1394	1394
55	2578	1719	1719
65	2333	1166	1166
75	1904	0	0
85	5656	0	0

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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	255	255	255	255	255
0.5	255	254	254	254	254
1.0	254	254	252	251	251
1.5	254	252	249	247	246
2.0	253	250	244	239	237
2.5	252	248	240	232	229
3.0	251	245	232	222	218
3.5	250	242	227	214	209
4.0	249	237	218	203	199
4.5	247	234	212	194	188
5.0	245	229	202	184	177
5.5	244	225	196	175	167
6.0	242	220	187	164	157
6.5	240	216	179	156	147
7.0	238	210	171	147	137
7.5	236	206	164	138	128
8.0	234	200	156	129	118
8.5	232	195	148	120	109
9.0	229	189	142	112	101
9.5	227	185	134	104	93
10.0	224	179	127	96	87
10.5	222	174	120	89	78
11.0	220	169	114	82	73
11.5	217	164	107	76	67
12.0	215	158	101	70	61
12.5	213	154	94	64	57
13.0	210	148	89	60	52
13.5	208	144	83	55	48
14.0	206	139	78	51	45
14.5	203	135	73	48	41
15.0	201	130	69	44	38
16.0	197	121	60	38	33
17.0	191	112	52	33	28
18.0	186	104	46	28	23
19.0	180	95	41	24	20
20.0	175	87	36	21	16
22.5	158	69	27	13	10
25.0	139	53	19	9	6
27.5	119	40	14	6	4
30.0	97	30	10	4	3
32.5	76	22	7	3	3
35.0	58	16	5	3	2
37.5	42	12	4	2	2
40.0	31	9	3	2	2
42.5	22	7	3	2	2
45.0	15	5	2	2	2
47.5	10	4	2	2	2
50.0	6	3	2	2	2
52.5	4	2	2	2	2
55.0	3	2	2	2	2
57.5	2	2	1	1	1
60.0	2	2	1	1	1
62.5	2	1	1	1	1
65.0	2	1	1	1	1

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CANDELA TABULATION - (Cont.)

67.5	2	1	1	1	1
70.0	2	1	1	1	1
72.5	1	1	1	1	1
75.0	1	1	0	1	0
77.5	1	1	0	0	0
80.0	1	1	0	0	0
82.5	1	0	0	0	0
85.0	1	0	0	0	0
87.5	0	0	0	0	0
90.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	42.86	N.A.	55.80
0-30	60.74	N.A.	79.00
0-40	69.48	N.A.	90.40
0-60	74.86	N.A.	97.40
0-80	76.73	N.A.	99.80
0-90	76.85	N.A.	100.00
10-90	59.32	N.A.	77.20
20-40	26.62	N.A.	34.60
20-50	30.26	N.A.	39.40
40-70	6.52	N.A.	8.50
60-80	1.87	N.A.	2.40
70-80	0.72	N.A.	0.90
80-90	0.12	N.A.	0.20
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	76.85	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	17.54
10-20	25.33
20-30	17.87
30-40	8.75
40-50	3.64
50-60	1.74
60-70	1.15
70-80	0.72
80-90	0.12
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	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94
2	108	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88
3	104	98	93	89	102	96	92	89	94	90	87	91	88	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	82	78	85	80	77	83	79	76	82	78	76	74
6	91	83	78	74	90	82	77	74	81	76	73	80	76	73	78	75	72	71
7	87	79	74	70	86	79	73	70	77	73	70	76	72	69	75	72	69	68
8	84	76	70	67	83	75	70	67	74	70	66	73	69	66	72	69	66	65
9	81	72	67	64	80	72	67	64	71	67	63	70	66	63	69	66	63	62
10	78	70	64	61	77	69	64	61	68	64	61	68	64	61	67	63	61	59

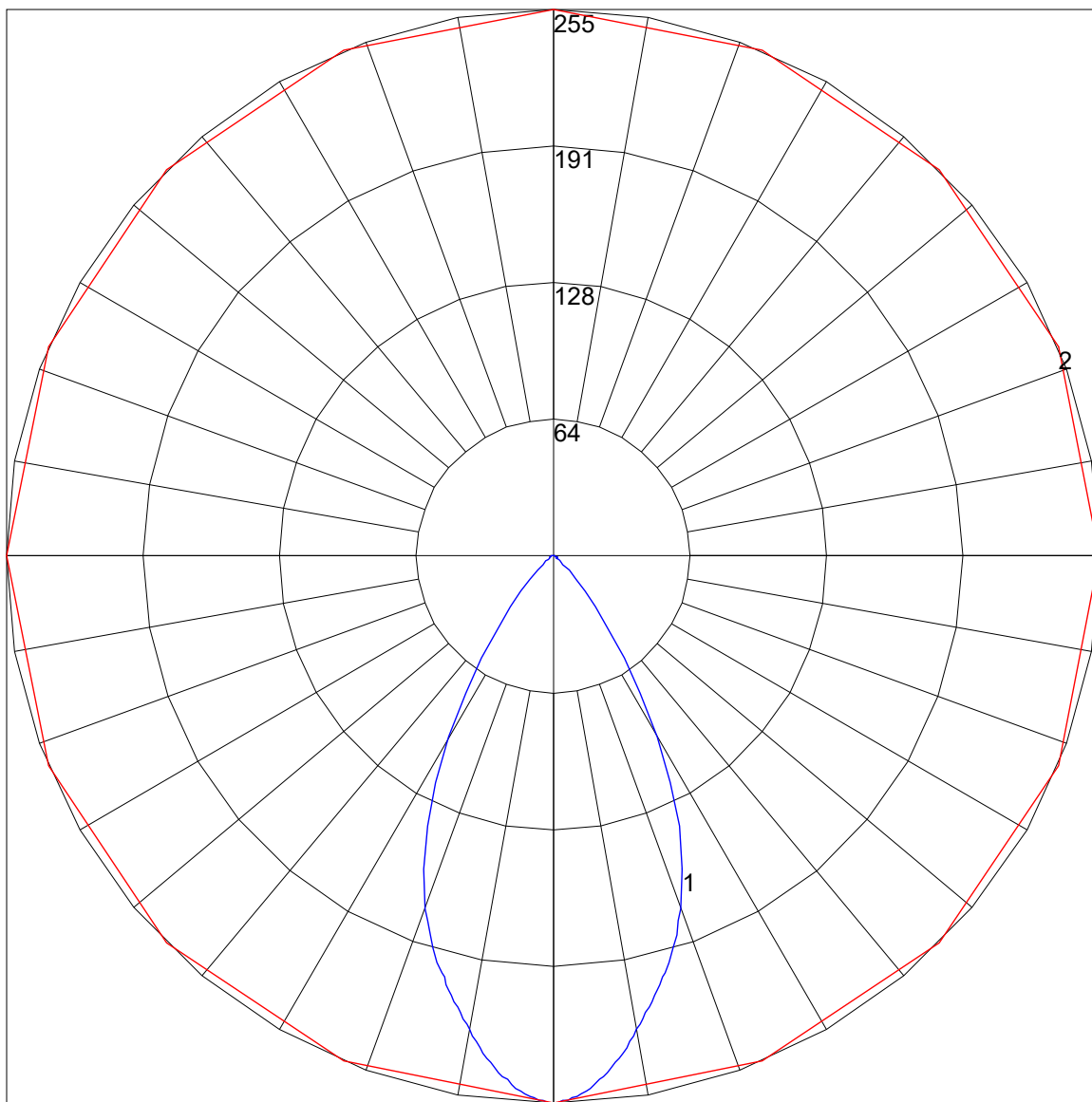
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UGR TABLE - CORRECTED

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	7.9	8.9	8.2	9.2	9.5	3.1	4.1	3.4	4.4	4.7
	3H	10.2	11.1	10.6	11.5	11.8	6.6	7.5	7.0	7.8	8.2
	4H	11.0	11.8	11.4	12.1	12.5	7.2	8.1	7.7	8.4	8.8
	6H	12.1	12.9	12.5	13.2	13.6	7.2	7.9	7.6	8.3	8.7
	8H	12.7	13.4	13.1	13.8	14.2	7.1	7.8	7.5	8.2	8.6
	12H	13.5	14.1	13.9	14.5	15.0	7.0	7.7	7.5	8.1	8.5
4H	2H	8.0	8.8	8.4	9.2	9.5	4.1	4.9	4.5	5.3	5.7
	3H	10.5	11.2	11.0	11.6	12.0	7.8	8.5	8.3	8.9	9.3
	4H	11.5	12.2	12.0	12.6	13.0	8.9	9.6	9.4	10.0	10.4
	6H	13.1	13.6	13.5	14.0	14.5	8.8	9.4	9.3	9.8	10.3
	8H	13.6	14.1	14.1	14.6	15.0	8.8	9.3	9.2	9.7	10.2
	12H	14.4	14.8	14.9	15.3	15.8	8.7	9.1	9.2	9.6	10.1
8H	4H	11.5	12.0	12.0	12.4	12.9	9.0	9.5	9.5	9.9	10.4
	6H	13.2	13.6	13.7	14.1	14.6	8.9	9.3	9.4	9.8	10.2
	8H	13.7	14.0	14.2	14.6	15.1	8.8	9.1	9.3	9.7	10.2
	12H	14.5	14.8	15.1	15.3	15.9	8.8	9.0	9.3	9.5	10.1
12H	4H	11.4	11.9	11.9	12.3	12.8	9.1	9.5	9.6	10.0	10.5
	6H	13.1	13.5	13.6	13.9	14.5	9.0	9.3	9.5	9.8	10.3
	8H	13.7	13.9	14.2	14.4	15.0	8.9	9.2	9.4	9.7	10.3

Maximum UGR = 15.9

POLAR GRAPH



Maximum Candela = 255 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.)