

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : EPC-HIGH OUTPUT.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]ITL90889-GONIOPHOTOMETRY  
[TESTLAB]BEGHELLI  
[ISSUEDATE]11/7/18  
[MANUFAC]BEGHELLI  
[LUMCAT] EPC-HIGH OUTPUT  
[LUMINAIRE]ONE 11.75" X 7.875" MOLDED TAN PLASTIC SINGLE FACE EXIT SIGN WITH  
[MORE]2 MOLDED TAN PLASTIC SWIVEL HEAD ASSEMBLIES, EACH HEAD ASSEMBLY  
[MORE]CONSISTS OF: ONE CIRCUIT BOARD WITH 3 LEDS, MOLDED PLASTIC LENS WITH ONE  
[MORE]OPTIC PER LED AND CONCENTRIC CIRCULAR OUTER PRISMS AND LINEAR CENTER  
[MORE]PRISMS. LENS PRISMS OUT AND PARALLEL WITH THE 0-DEGREE PLANE. BOTH  
[MORE]SWIVEL HEAD ASSEMBLIES AND ALL 9 INTERIOR LEDS WERE ILLUMINATED FOR  
[MORE]THIS TEST. ONLY ONE LIGHT HEAD WAS MEASURED FOR LIGHT OUTPUT.  
[LAMP]THREE WHITE LIGHT EMITTING DIODES (LEDS), VERTICAL BASE-UP POSITION.  
[INPUT\_ELECTRICAL]3.6 VOLTS, 2.48 WATTS, 0.689 AMPS  
[MOUNTING]WALL  
[LEDDRIVER]BEST LIGHTING PRODUCTS PROPRIETARY  
[NOTE]DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT VOLTAGE  
[MORE](3.6VDC) TO THE DRIVER. LED DRIVER INFORMATION PROVIDED BY CLIENT.  
[OTHER]TEST PROCEDURE: IESNA LM-79-08  
[OTHER]TEST DISTANCE = 20.0 FEET  
[ABSOLUTELUMENS]110

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	110
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	44
Total Luminaire Watts	2.48
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.82
Spacing Criterion (90-270)	0.28
Spacing Criterion (Diagonal)	0.40
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.17 ft (Diameter)
Luminous Width (90-270)	0.17 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	14079	2011	2011
55	3253	1626	1626
65	3224	1075	2149
75	6633	1658	1658
85	11663	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>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
0.0	349	349	349	349	349	349	349	349	349
0.5	351	351	350	350	349	347	346	345	345
1.0	350	350	347	345	344	344	344	345	345
1.5	350	348	344	340	337	337	340	343	345
2.0	349	346	337	330	327	330	335	342	344
2.5	348	343	331	321	318	320	328	338	343
3.0	347	340	321	307	303	309	322	336	342
3.5	346	336	314	297	292	297	312	331	340
4.0	345	331	302	281	275	284	304	328	339
4.5	342	326	294	271	264	271	294	323	337
5.0	340	321	281	261	248	258	284	318	335
5.5	337	315	273	245	237	245	273	314	333
6.0	335	309	262	235	224	232	263	307	331
6.5	333	302	252	220	210	220	254	302	330
7.0	331	296	243	211	198	208	242	295	327
7.5	328	289	231	196	185	195	234	290	324
8.0	325	284	223	187	172	184	222	282	322
8.5	323	276	211	173	159	172	214	277	319
9.0	319	269	203	164	147	161	202	269	316
9.5	317	262	191	151	135	149	194	264	314
10.0	313	255	184	140	126	138	185	256	310
11.0	307	242	165	119	104	118	166	243	305
11.5	303	235	156	109	93	108	157	236	302
12.0	300	227	147	98	87	99	148	230	299
12.5	296	222	137	92	78	91	138	223	297
13.0	294	214	130	83	72	83	130	217	293
13.5	290	209	120	77	65	75	121	210	291
14.0	288	202	114	70	61	71	114	205	287
14.5	284	197	105	65	55	64	106	197	284
15.0	281	189	99	59	52	60	99	192	281
16.0	274	177	85	51	43	52	86	180	274
17.0	267	165	74	44	37	44	74	168	268
18.0	259	153	64	38	31	38	64	157	261
19.0	251	141	56	32	26	33	56	145	254
20.0	242	130	49	28	22	28	49	134	246
22.5	215	104	35	19	14	19	35	107	226
25.0	189	80	26	12	9	12	26	83	200
27.5	159	61	18	8	5	7	19	62	173
30.0	131	44	14	5	4	5	13	46	140
32.5	102	32	10	4	3	4	10	33	108
35.0	78	23	7	3	3	3	7	24	82
37.5	58	17	5	3	3	3	5	17	59
40.0	43	13	4	3	3	3	4	13	44
42.5	30	10	4	3	3	3	4	10	32
45.0	21	7	3	3	3	3	3	7	22
47.5	14	6	3	3	3	3	3	6	15
50.0	9	4	2	3	3	3	2	4	10
52.5	6	3	2	2	3	3	2	4	7
55.0	4	3	2	2	2	2	2	3	5
57.5	4	2	2	2	2	2	2	2	4
60.0	3	2	2	2	2	2	2	2	4
62.5	3	2	2	2	2	2	2	2	3
65.0	3	2	1	1	2	1	1	2	3
67.5	3	2	1	1	1	1	1	2	3

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CANDELA TABULATION - (Cont.)

70.0	3	2	1	1	1	1	1	2	4
72.5	4	1	1	1	1	1	1	1	4
75.0	4	1	1	1	1	1	1	1	4
77.5	4	1	1	0	1	0	1	1	4
80.0	4	2	0	0	0	0	0	1	4
82.5	4	1	0	0	0	0	0	1	3
85.0	3	1	0	0	0	0	0	1	3
87.5	2	1	0	0	0	0	0	1	2
90.0	2	1	0	0	0	0	0	0	2
92.5	0	0	0	0	0	0	0	0	0
95.0	0	0	0	0	0	0	0	0	0
97.5	0	0	0	0	0	0	0	0	0
100.0	0	0	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0	0	0
105.0	0	0	0	0	0	0	0	0	0
107.5	0	0	0	0	0	0	0	0	0
110.0	0	0	0	0	0	0	0	0	0
112.5	0	0	0	0	0	0	0	0	0
115.0	0	0	0	0	0	0	0	0	0
117.5	0	0	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0	0	0
125.0	0	0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0	0	0
130.0	0	0	0	0	0	0	0	0	0
132.5	0	0	0	0	0	0	0	0	0
135.0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	60.75	N.A.	55.20
0-30	86.33	N.A.	78.40
0-40	98.60	N.A.	89.60
0-60	106.26	N.A.	96.50
0-80	109.37	N.A.	99.30
0-90	110.04	N.A.	100.00
10-90	85.41	N.A.	77.60
20-40	37.85	N.A.	34.40
20-50	43.06	N.A.	39.10
40-70	9.43	N.A.	8.60
60-80	3.11	N.A.	2.80
70-80	1.34	N.A.	1.20
80-90	0.66	N.A.	0.60
90-110	0.05	N.A.	0.00
90-120	0.05	N.A.	0.00
90-130	0.05	N.A.	0.00
90-150	0.05	N.A.	0.00
90-180	0.05	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	110.09	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	24.63
10-20	36.12
20-30	25.58
30-40	12.27
40-50	5.22
50-60	2.45
60-70	1.76
70-80	1.34
80-90	0.66
90-100	0.05
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	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94
2	108	104	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88
3	103	97	93	89	102	96	92	88	93	90	87	91	88	85	89	86	84	83
4	99	92	87	83	97	91	86	82	89	85	81	87	83	80	85	82	79	78
5	95	87	82	78	93	86	81	77	84	80	77	83	79	76	81	78	75	74
6	91	83	77	73	89	82	77	73	81	76	73	79	75	72	78	74	72	70
7	87	79	73	70	86	78	73	69	77	72	69	76	72	69	75	71	68	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	63	61
10	78	69	64	61	77	69	64	61	68	64	60	67	63	60	67	63	60	59

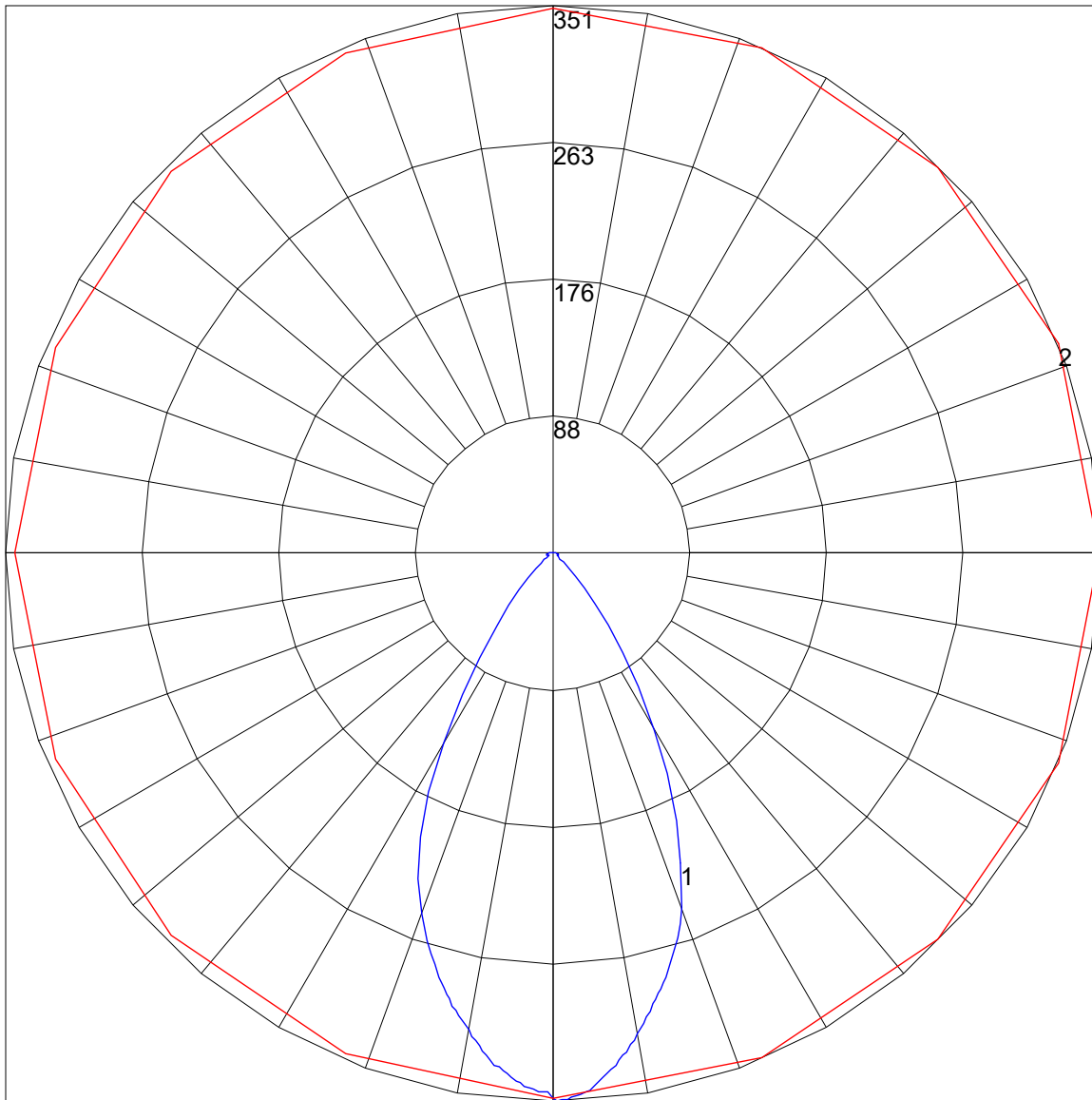
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**UGR TABLE - CORRECTED**

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	7.5	8.5	7.9	8.9	9.2	6.4	7.4	6.8	7.7	8.1
	3H	11.2	12.2	11.6	12.5	12.9	7.5	8.4	7.9	8.8	9.1
	4H	13.7	14.5	14.1	14.9	15.3	8.5	9.4	8.9	9.7	10.1
	6H	16.4	17.2	16.9	17.6	18.0	8.8	9.6	9.3	10.0	10.4
	8H	17.8	18.6	18.3	19.0	19.4	8.8	9.5	9.2	9.9	10.3
	12H	18.9	19.7	19.4	20.0	20.5	8.7	9.4	9.2	9.8	10.3
4H	2H	7.5	8.4	7.9	8.7	9.1	6.5	7.4	6.9	7.7	8.1
	3H	11.4	12.1	11.9	12.5	13.0	8.1	8.8	8.5	9.2	9.6
	4H	13.7	14.3	14.1	14.8	15.2	9.2	9.9	9.7	10.3	10.7
	6H	16.9	17.4	17.4	17.9	18.4	9.5	10.0	9.9	10.5	10.9
	8H	18.5	19.0	18.9	19.4	19.9	9.4	9.9	9.9	10.4	10.8
	12H	19.8	20.2	20.2	20.7	21.2	9.3	9.8	9.8	10.3	10.8
8H	4H	13.7	14.2	14.2	14.7	15.1	9.6	10.1	10.1	10.6	11.0
	6H	17.0	17.4	17.5	17.9	18.4	9.8	10.2	10.3	10.7	11.2
	8H	18.6	18.9	19.1	19.4	19.9	9.7	10.1	10.2	10.6	11.1
	12H	20.0	20.3	20.5	20.8	21.4	9.6	10.0	10.2	10.5	11.0
12H	4H	13.6	14.1	14.1	14.6	15.0	9.7	10.2	10.2	10.7	11.1
	6H	16.9	17.3	17.4	17.7	18.3	9.9	10.3	10.4	10.7	11.3
	8H	18.5	18.8	19.0	19.3	19.9	9.8	10.2	10.4	10.7	11.2

Maximum UGR = 21.4

POLAR GRAPH



Maximum Candela = 351 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.)