



IES INDOOR REPORT

PHOTOMETRIC FILENAME : IH-F16-14W_IESNA2002.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] T190827050
 [TESTLAB] Dongguan Hongnuo Product Testing Service Co., Ltd.
 [TESTDATE] 2019-08-27
 [ISSUEDATE] 2019-08-27 21:24:52
 [MANUFAC] BeLuce Canada Inc.
 [LAMP] TESTA 24V 14W IH-WL-F16
 [MORE] BeLuce REMOTE HEAD TESTA
 [MORE] LUMEN RATING = 1480.8 LMS
 [OTHER] EVERFINE GO-R5000_V2 SYSTEM

CHARACTERISTICS

Lumens Per Lamp	1480.8 (1 lamp)
Total Lamp Lumens	1480.8
Luminaire Lumens	1514
Total Luminaire Efficiency	102 %
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	13.43
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.32
Spacing Criterion (90-270)	0.50
Spacing Criterion (Diagonal)	0.46
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.00 m
Luminous Width (90-270)	0.02 m
Luminous Height	0.00 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5182	6062	6711
55	4273	5290	5141
65	3386	3918	4799
75	1858	2454	3569
85	0	138	1325

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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>	<u>202.5</u>
0	4665.50	4665.50	4665.50	4665.50	4665.50	4665.50	4665.50	4665.50	4665.50	4665.50
5	3661.48	3958.16	4300.68	4601.16	4779.43	4827.65	4790.05	4703.81	4575.52	4375.02
10	2069.83	2453.47	2948.18	3450.03	3799.78	3895.43	3822.86	3656.96	3426.86	3106.48
15	1278.79	1482.85	1788.56	2083.41	2251.18	2267.06	2189.53	2048.59	1922.78	1855.33
20	873.77	1012.89	1220.26	1369.43	1374.15	1298.76	1237.29	1207.03	1218.61	1237.09
25	547.80	643.46	766.96	873.98	909.32	891.17	863.08	840.55	826.32	803.57
30	296.65	355.84	441.96	523.29	566.23	572.25	561.31	538.14	509.54	464.02
35	158.01	185.73	222.43	264.18	296.10	306.83	308.82	293.80	267.64	237.84
40	97.57	108.34	123.71	141.32	153.64	159.23	162.38	155.25	145.09	132.03
45	73.32	77.96	85.77	92.45	94.95	97.42	98.83	95.93	92.42	88.36
50	59.04	62.80	70.35	74.40	72.55	72.12	72.09	71.17	71.58	72.67
55	49.04	52.38	60.71	62.54	59.00	57.91	59.39	58.90	57.31	60.86
60	39.40	42.66	47.58	51.01	49.50	47.51	47.58	48.38	47.67	52.23
65	28.63	31.56	33.13	36.63	40.58	39.11	37.39	38.75	39.47	41.79
70	18.87	20.42	23.03	26.19	28.29	28.88	28.73	29.29	30.49	30.19
75	9.62	11.51	12.71	15.37	18.48	19.58	20.00	20.15	20.69	19.69
80	3.09	3.95	4.85	6.47	9.46	10.62	11.73	11.85	11.72	10.20
85	0.00	0.03	0.24	0.90	2.31	3.61	4.40	4.62	4.28	3.23
90	0.00	0.00	0.00	0.00	0.00	0.03	0.22	0.29	0.19	0.04
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.03	0.03	0.02	0.01	0.01	0.01	0.00	0.00	0.01	0.01
155	0.07	0.07	0.06	0.05	0.04	0.04	0.03	0.03	0.03	0.04
160	0.13	0.12	0.11	0.09	0.09	0.08	0.07	0.07	0.07	0.08
165	0.20	0.18	0.16	0.14	0.15	0.15	0.13	0.13	0.13	0.14
170	0.23	0.21	0.20	0.19	0.23	0.22	0.21	0.20	0.19	0.20
175	0.17	0.17	0.17	0.18	0.20	0.20	0.19	0.19	0.18	0.17
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Angles **Horizontal Angles**

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0	4665.50	4665.50	4665.50	4665.50	4665.50	4665.50	4665.50
5	4117.71	3840.19	3602.64	3440.58	3390.14	3463.67	3661.48
10	2752.36	2376.30	2071.16	1873.75	1803.41	1859.96	2069.83
15	1734.90	1551.58	1341.51	1207.62	1158.54	1181.21	1278.79
20	1185.70	1059.53	903.38	809.33	784.71	807.32	873.77
25	747.54	649.31	548.05	491.06	475.52	495.43	547.80
30	407.37	341.52	282.82	257.14	251.51	264.71	296.65
35	209.53	180.20	154.19	140.87	138.49	145.48	158.01
40	124.85	112.38	98.13	92.00	89.69	91.89	97.57
45	89.01	85.26	77.42	72.44	70.80	71.62	73.32
50	77.83	74.49	64.34	59.48	59.20	59.27	59.04
55	65.21	63.78	54.41	49.31	47.14	46.92	49.04
60	50.30	48.55	44.36	39.79	36.66	36.10	39.40

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CANDELA TABULATION - (Cont.)

65	38.69	36.76	33.66	29.85	27.02	27.19	28.63
70	27.35	24.59	22.66	19.94	17.73	17.81	18.87
75	16.56	14.01	12.64	10.88	9.38	9.43	9.62
80	7.83	6.05	4.75	3.66	2.86	2.59	3.09
85	1.82	0.92	0.33	0.10	0.02	0.01	0.00
90	0.01	0.00	0.00	0.00	0.00	0.00	0.00
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	0.00	0.00	0.01	0.01	0.01	0.01	0.00
150	0.02	0.03	0.04	0.04	0.04	0.03	0.03
155	0.05	0.07	0.08	0.08	0.08	0.08	0.07
160	0.10	0.12	0.14	0.15	0.15	0.14	0.13
165	0.16	0.18	0.20	0.21	0.21	0.21	0.20
170	0.21	0.21	0.22	0.22	0.24	0.24	0.23
175	0.17	0.16	0.15	0.16	0.16	0.17	0.17
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	856.43	57.80	56.60
0-30	1188.77	80.30	78.50
0-40	1339.46	90.50	88.50
0-60	1460.04	98.60	96.40
0-80	1511.01	102.00	99.80
0-90	1513.84	102.20	100.00
10-90	1158.48	78.20	76.50
20-40	483.04	32.60	31.90
20-50	552.86	37.30	36.50
40-70	155.28	10.50	10.30
60-80	50.97	3.40	3.40
70-80	16.27	1.10	1.10
80-90	2.82	0.20	0.20
90-110	0.01	0.00	0.00
90-120	0.01	0.00	0.00
90-130	0.01	0.00	0.00
90-150	0.02	0.00	0.00
90-180	0.11	0.00	0.00
110-180	0.09	0.00	0.00
0-180	1513.94	102.20	100.00

Total Luminaire Efficiency = 102.20%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	355.36
10-20	501.06
20-30	332.35
30-40	150.69
40-50	69.82
50-60	50.76
60-70	34.70
70-80	16.27
80-90	2.82
90-100	0.01
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.03
160-170	0.05
170-180	0.02

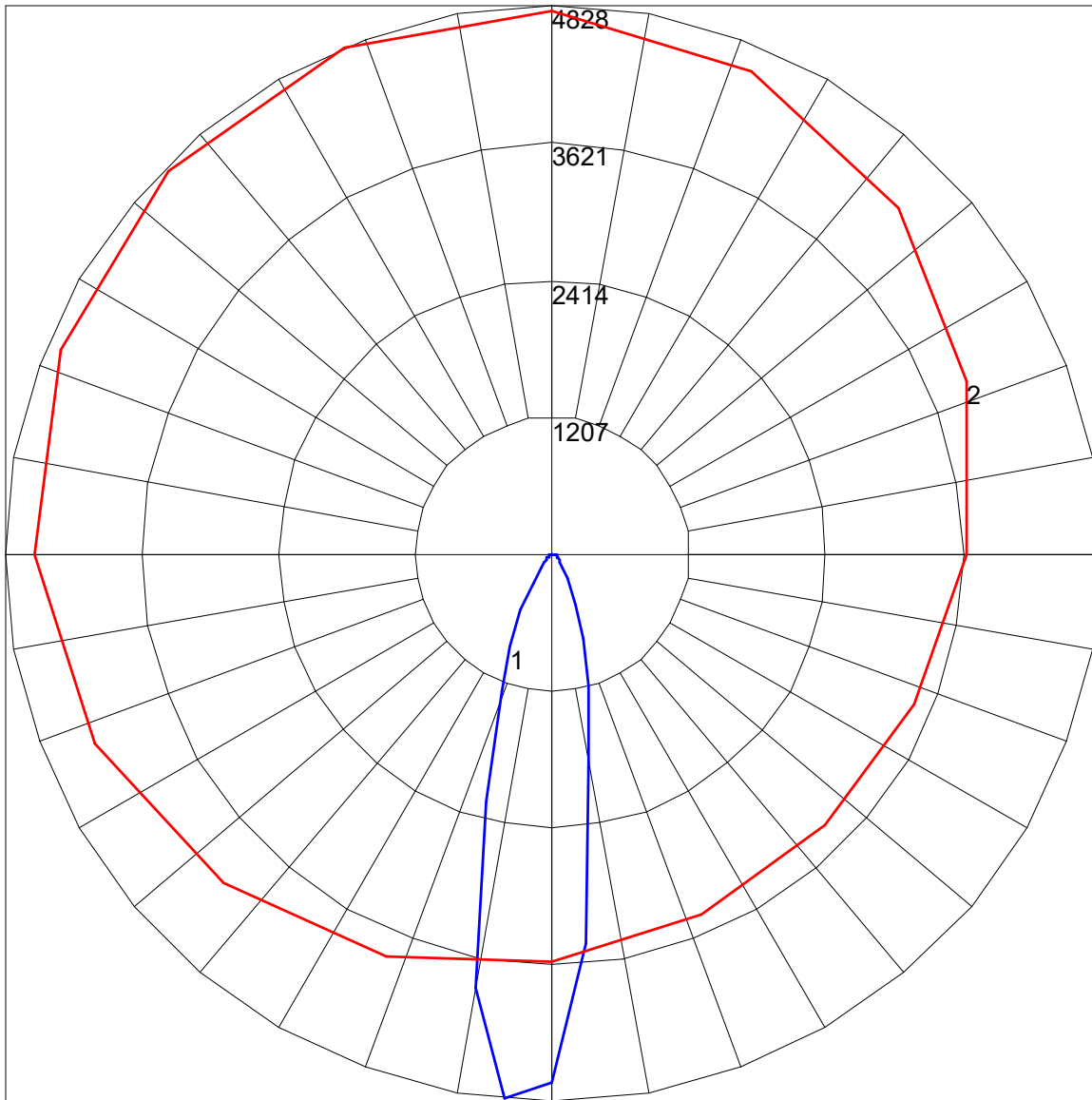
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	122	122	122	122	119	119	119	119	114	114	114	109	109	109	104	104	104	102
1	116	113	111	109	114	111	109	107	107	105	104	103	102	101	100	99	98	96
2	111	106	102	99	109	104	101	98	101	98	95	98	96	93	95	93	91	90
3	106	100	95	91	104	98	94	90	96	92	89	93	90	87	91	88	86	84
4	101	94	89	85	99	93	88	84	91	86	83	89	85	82	87	84	81	80
5	97	89	84	79	95	88	83	79	86	82	78	85	81	78	83	80	77	76
6	93	85	79	75	91	84	79	75	82	78	74	81	77	74	80	76	73	72
7	89	81	75	71	88	80	75	71	79	74	71	78	73	70	77	73	70	69
8	86	77	72	68	85	77	71	68	76	71	68	75	70	67	74	70	67	66
9	83	74	69	65	82	73	68	65	73	68	65	72	68	64	71	67	64	63
10	80	71	66	62	79	71	66	62	70	65	62	69	65	62	68	65	62	61

POLAR GRAPH



Maximum Candela = 4827.65 Located At Horizontal Angle = 112.5, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (112.5 - 292.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)