



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
 [ISSUE DATE] 2019-08-27 21:12:53
 [MANUFAC] BeLuce Canada Inc.
 [LAMP] TESTA 12V 14W IH-WL-F16
 [MORE] BeLuce REMOTE HEAD TESTA
 [MORE] LUMEN RATING = 1454 LMS
 [OTHER] EVERFINE GO-R5000_V2 SYSTEM

CHARACTERISTICS

Lumens Per Lamp	1454.1 (1 lamp)
Total Lamp Lumens	1454.1
Luminaire Lumens	1487
Total Luminaire Efficiency	102 %
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	13
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	5095	5948	6593
55	4187	5195	5043
65	3323	3842	4707
75	1819	2402	3503
85	0	126	1285

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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	4575.14	4575.14	4575.14	4575.14	4575.14	4575.14	4575.14	4575.14	4575.14	4575.14
5	3588.93	3881.06	4213.98	4507.02	4679.28	4730.65	4694.50	4612.18	4488.61	4298.82
10	2025.83	2401.62	2883.91	3374.43	3719.47	3808.50	3744.55	3589.92	3363.44	3050.52
15	1255.05	1454.68	1753.90	2036.44	2197.01	2215.92	2141.61	2008.97	1887.24	1823.25
20	858.24	997.50	1199.12	1341.64	1345.90	1273.74	1214.11	1184.65	1196.54	1216.06
25	539.10	632.89	751.57	858.06	892.34	874.72	848.14	825.77	813.02	790.95
30	292.28	349.46	434.67	512.60	557.32	562.50	551.97	529.80	502.79	458.18
35	155.72	182.49	219.26	259.93	292.06	302.92	304.37	290.01	264.59	235.01
40	95.98	106.53	121.43	138.79	151.16	156.97	159.99	153.01	143.12	130.26
45	72.09	76.54	84.16	90.68	93.28	95.79	97.12	94.41	90.85	86.94
50	57.94	61.67	69.06	72.92	71.22	70.80	70.81	69.91	70.32	71.36
55	48.05	51.29	59.62	61.33	57.87	56.89	58.37	57.88	56.29	59.78
60	38.67	41.87	46.69	50.01	48.54	46.61	46.75	47.55	46.82	51.33
65	28.10	30.92	32.49	35.86	39.80	38.30	36.73	38.08	38.74	41.11
70	18.49	20.03	22.59	25.67	27.75	28.29	28.20	28.77	29.96	29.68
75	9.42	11.26	12.44	15.07	18.14	19.18	19.62	19.79	20.33	19.35
80	3.03	3.87	4.73	6.30	9.11	10.37	11.49	11.63	11.50	10.04
85	0.00	0.03	0.22	0.87	2.24	3.53	4.30	4.54	4.21	3.19
90	0.00	0.00	0.00	0.00	0.00	0.03	0.21	0.28	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	0.03	0.03	0.03	0.03	0.04
160	0.13	0.12	0.10	0.09	0.08	0.08	0.07	0.07	0.07	0.08
165	0.19	0.18	0.16	0.14	0.15	0.14	0.13	0.13	0.13	0.14
170	0.23	0.21	0.20	0.18	0.23	0.22	0.20	0.19	0.19	0.19
175	0.17	0.17	0.17	0.17	0.20	0.20	0.19	0.18	0.17	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	4575.14	4575.14	4575.14	4575.14	4575.14	4575.14	4575.14
5	4043.80	3772.08	3533.06	3380.07	3326.70	3396.01	3588.93
10	2701.70	2334.62	2034.46	1840.04	1770.71	1822.68	2025.83
15	1704.25	1525.22	1317.80	1186.52	1139.03	1159.71	1255.05
20	1167.29	1042.86	888.78	798.04	772.40	794.56	858.24
25	737.92	640.66	541.23	485.41	469.68	488.69	539.10
30	402.84	337.11	279.51	254.15	248.96	261.56	292.28
35	206.79	177.71	152.25	139.23	136.75	143.42	155.72
40	123.08	108.61	96.72	90.58	88.37	90.45	95.98
45	87.52	83.68	76.06	71.25	69.59	70.35	72.09
50	76.45	73.10	63.20	58.48	58.21	58.29	57.94
55	64.14	62.69	53.44	48.49	46.20	46.01	48.05
60	49.48	47.77	43.59	39.09	36.00	35.51	38.67

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CANDELA TABULATION - (Cont.)

65	38.06	36.16	33.11	29.35	26.57	26.73	28.10
70	26.96	24.25	22.32	19.61	17.45	17.51	18.49
75	16.30	13.81	12.45	10.71	9.21	9.27	9.42
80	7.72	5.98	4.70	3.62	2.81	2.56	3.03
85	1.80	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	0.03	0.03	0.03	0.03
155	0.05	0.07	0.08	0.08	0.08	0.07	0.07
160	0.10	0.12	0.14	0.14	0.14	0.14	0.13
165	0.15	0.17	0.19	0.20	0.21	0.20	0.19
170	0.20	0.21	0.21	0.22	0.23	0.23	0.23
175	0.16	0.16	0.15	0.16	0.17	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	839.83	57.80	56.50
0-30	1166.73	80.20	78.50
0-40	1315.24	90.50	88.50
0-60	1433.71	98.60	96.40
0-80	1483.77	102.00	99.80
0-90	1486.53	102.20	100.00
10-90	1138.09	78.30	76.60
20-40	475.41	32.70	32.00
20-50	544.03	37.40	36.60
40-70	152.55	10.50	10.30
60-80	50.05	3.40	3.40
70-80	15.98	1.10	1.10
80-90	2.77	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	0.10	0.00	0.00
110-180	0.09	0.00	0.00
0-180	1486.64	102.20	100.00

Total Luminaire Efficiency = 102.20%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	348.45
10-20	491.39
20-30	326.90
30-40	148.51
40-50	68.62
50-60	49.85
60-70	34.08
70-80	15.98
80-90	2.77
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	0.04
170-180	0.02

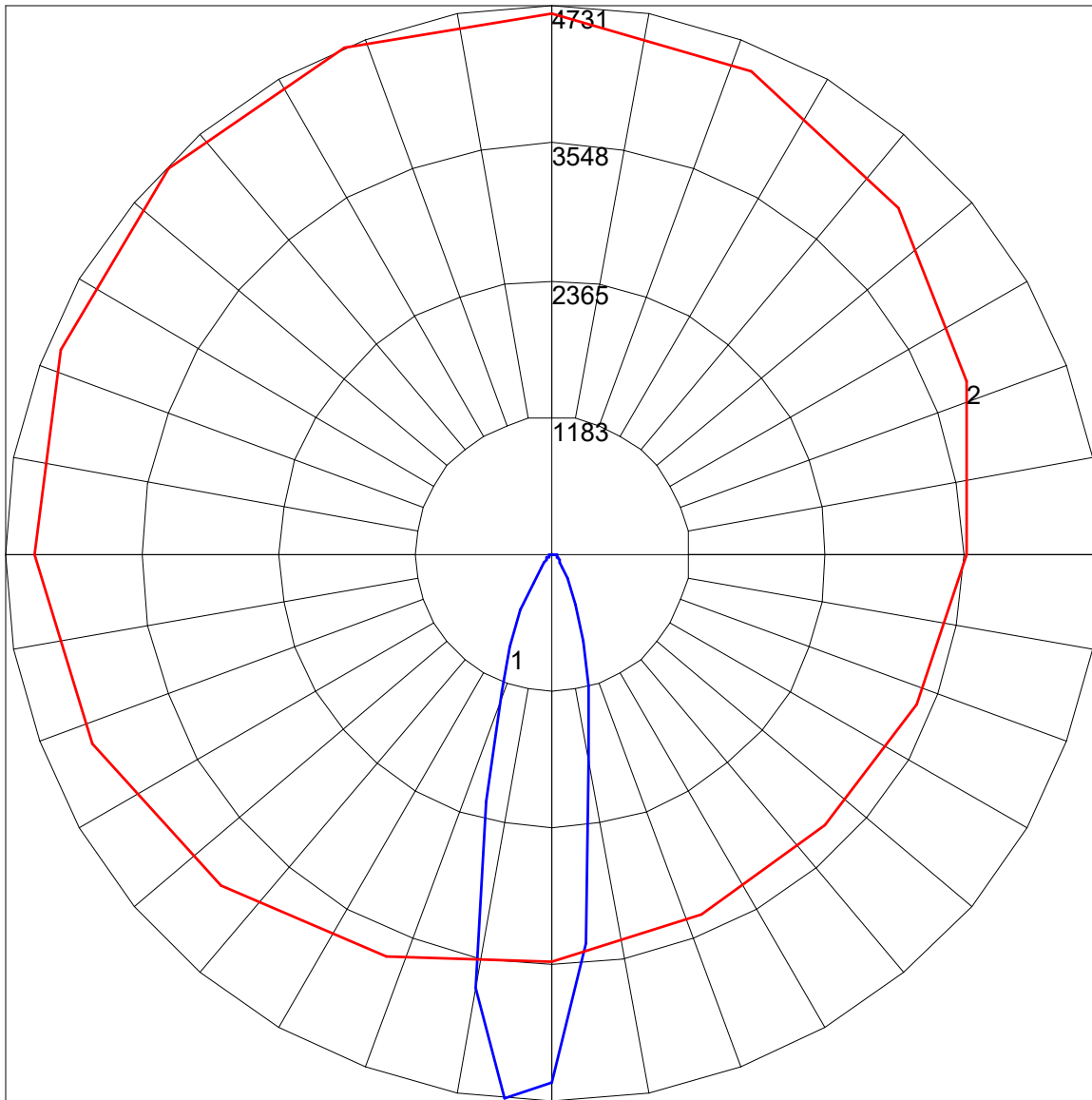
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	95	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	83	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	76	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	67	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 = 4730.65 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.)