



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BL716LEDHTHOWT50120-277_S.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TESTLAB] Photopia 2019.0.0 see: www.ltioptics.com/ies

[ISSUEDATE]

[TESTDATE] Fri Aug 02 14:15:31 2019

[TEST] 1

[MANUFAC] BEGHELLI

[LUMCAT]

[LUMINAIRE] BL716LEDHTHOWT50120-277

[LAMP] LED 0.3W White 2323 package (65mA)

[LAMPCAT] SPMWHT221MD5WAT0S0

[OTHER]

IESNA:LM-63-2002

[OTHER] Luminous shape: Rectangle

[OTHER] Luminous dimensions (feet)

[OTHER] 0 - 180 Axis: 4.2

[OTHER] 90 - 270 Axis: 0.6

[OTHER] Height: 0.1

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4387
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	40
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.48
Spacing Criterion (90-270)	1.48
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.53 ft
Luminous Width (90-270)	0.61 ft
Luminous Height	0.24 ft

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	37915	34482	39614
55	19008	16890	20093
65	7311	6318	7842
75	2400	2000	2626
85	363	287	410

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CANDELA TABULATION

	<u>0</u>
0	1809.69
5	1781.52
10	1835.30
15	1911.12
20	1980.63
25	1999.90
30	1937.18
35	1786.66
40	1514.78
45	1165.70
50	827.41
55	537.68
60	323.11
65	182.56
70	98.18
75	50.14
80	23.03
85	5.88
90	0.02
95	0.00
100	0.00
105	0.00
110	0.00
115	0.00
120	0.00
125	0.00
130	0.00
135	0.01
140	0.00
145	0.00
150	0.00
155	0.00
160	0.00
165	0.00
170	0.00
175	0.00
180	0.00

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	715.29	N.A.	16.30
0-30	1631.01	N.A.	37.20
0-40	2730.19	N.A.	62.20
0-60	4125.03	N.A.	94.00
0-80	4377.39	N.A.	99.80
0-90	4386.86	N.A.	100.00
10-90	4214.54	N.A.	96.10
20-40	2014.91	N.A.	45.90
20-50	2913.96	N.A.	66.40
40-70	1588.85	N.A.	36.20
60-80	252.36	N.A.	5.80
70-80	58.35	N.A.	1.30
80-90	9.47	N.A.	0.20
90-110	0.01	N.A.	0.00
90-120	0.01	N.A.	0.00
90-130	0.01	N.A.	0.00
90-150	0.01	N.A.	0.00
90-180	0.01	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	4386.87	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	172.32
10-20	542.97
20-30	915.73
30-40	1099.18
40-50	899.05
50-60	495.79
60-70	194.01
70-80	58.35
80-90	9.47
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	0.00
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	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	86	83	80	78
3	96	87	80	75	93	86	79	74	83	77	73	80	76	72	78	74	71	69
4	89	78	71	65	87	77	70	65	75	69	64	73	67	63	71	66	62	61
5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	64	60	56	54
6	76	65	57	51	75	64	56	51	62	55	50	60	55	50	59	54	50	48
7	71	59	51	46	70	58	51	46	57	50	45	55	49	45	54	49	45	43
8	66	54	46	41	65	53	46	41	52	46	41	51	45	41	50	44	40	39
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	37	33	32

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UGR TABLE - CORRECTED

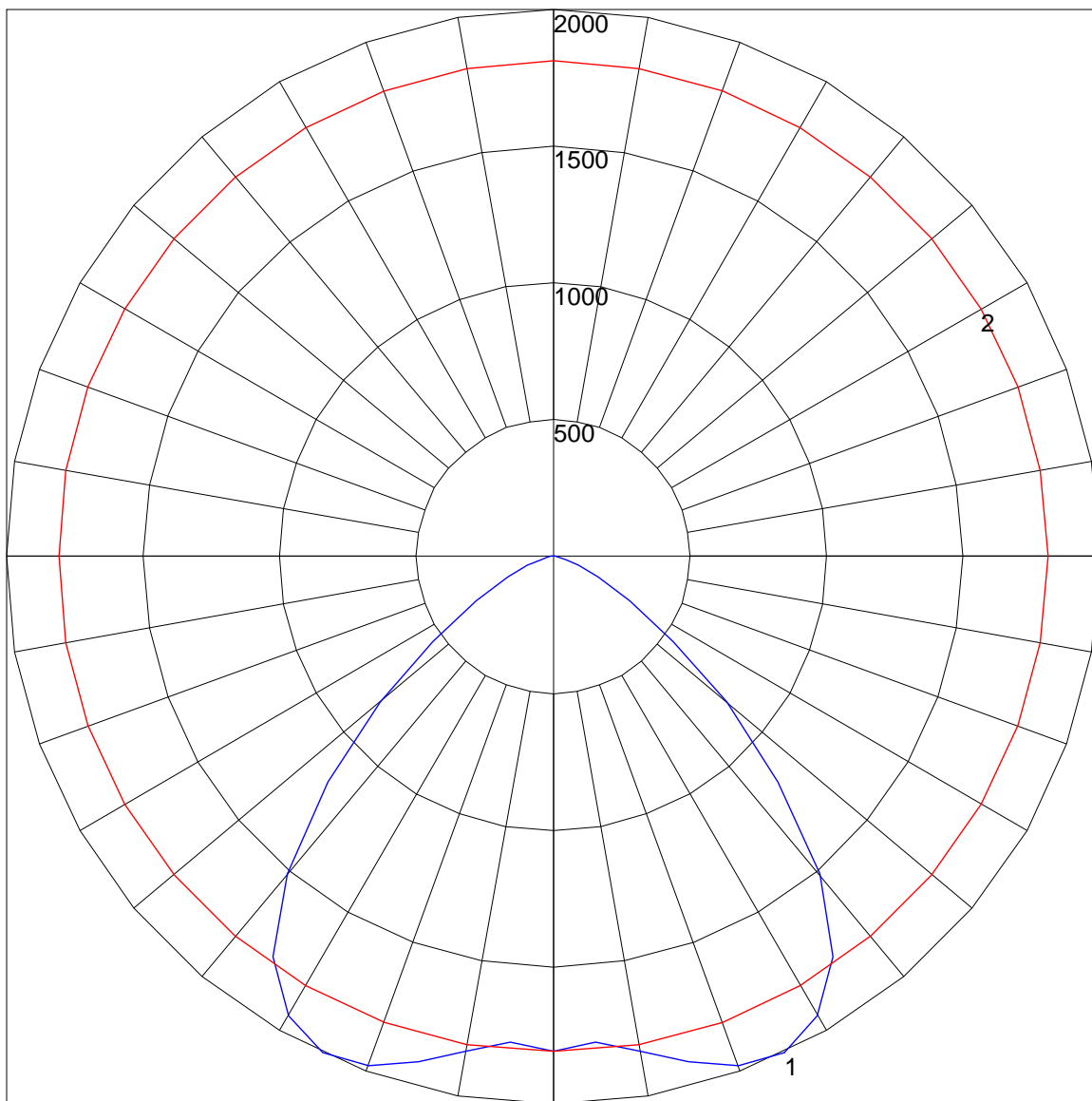
Reflectances

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	24.9	26.3	25.3	26.6	26.9	24.9	26.3	25.3	26.6	26.9
	3H	25.2	26.4	25.6	26.8	27.1	25.2	26.4	25.6	26.8	27.1
	4H	25.2	26.4	25.6	26.7	27.1	25.2	26.4	25.6	26.7	27.1
	6H	25.2	26.2	25.6	26.6	27.0	25.2	26.2	25.6	26.6	27.0
	8H	25.2	26.2	25.6	26.5	26.9	25.2	26.2	25.6	26.5	26.9
	12H	25.1	26.1	25.6	26.5	26.9	25.1	26.1	25.6	26.5	26.9
4H	2H	25.0	26.1	25.4	26.5	26.9	25.0	26.1	25.4	26.5	26.9
	3H	25.3	26.3	25.7	26.7	27.1	25.3	26.3	25.7	26.7	27.1
	4H	25.4	26.2	25.8	26.6	27.1	25.4	26.2	25.8	26.6	27.1
	6H	25.4	26.1	25.8	26.5	27.0	25.4	26.1	25.8	26.5	27.0
	8H	25.3	26.0	25.8	26.4	26.9	25.3	26.0	25.8	26.4	26.9
	12H	25.3	25.9	25.8	26.3	26.8	25.3	25.9	25.8	26.3	26.8
8H	4H	25.3	26.0	25.8	26.4	26.9	25.3	26.0	25.8	26.4	26.9
	6H	25.3	25.8	25.8	26.3	26.8	25.3	25.8	25.8	26.3	26.8
	8H	25.2	25.7	25.7	26.2	26.7	25.2	25.7	25.7	26.2	26.7
	12H	25.2	25.6	25.7	26.1	26.7	25.2	25.6	25.7	26.1	26.7
12H	4H	25.3	25.8	25.7	26.3	26.8	25.3	25.8	25.7	26.3	26.8
	6H	25.2	25.7	25.7	26.2	26.7	25.2	25.7	25.7	26.2	26.7
	8H	25.2	25.6	25.7	26.1	26.7	25.2	25.6	25.7	26.1	26.7

Maximum UGR = 27.1

POLAR GRAPH



Maximum Candela = 1999.9 Located At Horizontal Angle = 0, Vertical Angle = 25
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0)