



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BL716LEDHTHOWT40120-277\_S.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

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

[ISSUEDATE]

[TESTDATE] Fri Aug 02 12:25:55 2019

[TEST] 1

[MANUFAC] BEGHELLI

[LUMCAT]

[LUMINAIRE] BL716LEDHTHOWT40120-277

[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	4219
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	105
Total Luminaire Watts	40
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.46
Spacing Criterion (90-270)	1.46
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	36440	33140	38073
55	18300	16262	19345
65	7050	6093	7562
75	2298	1915	2515
85	353	279	399

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CANDELA TABULATION

	<u>0</u>
0	1766.48
5	1715.78
10	1767.35
15	1836.79
20	1905.38
25	1920.73
30	1865.12
35	1720.10
40	1456.02
45	1120.35
50	794.38
55	517.66
60	310.02
65	176.04
70	94.42
75	48.02
80	22.16
85	5.71
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	688.43	N.A.	16.30
0-30	1568.83	N.A.	37.20
0-40	2626.69	N.A.	62.30
0-60	3967.22	N.A.	94.00
0-80	4209.87	N.A.	99.80
0-90	4219.01	N.A.	100.00
10-90	4052.78	N.A.	96.10
20-40	1938.25	N.A.	45.90
20-50	2802.19	N.A.	66.40
40-70	1527.18	N.A.	36.20
60-80	242.65	N.A.	5.80
70-80	56.01	N.A.	1.30
80-90	9.14	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	4219.02	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	166.23
10-20	522.20
20-30	880.39
30-40	1057.86
40-50	863.94
50-60	476.60
60-70	186.64
70-80	56.01
80-90	9.14
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	93	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	79	71	65	87	77	70	65	75	69	64	73	68	63	71	66	63	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

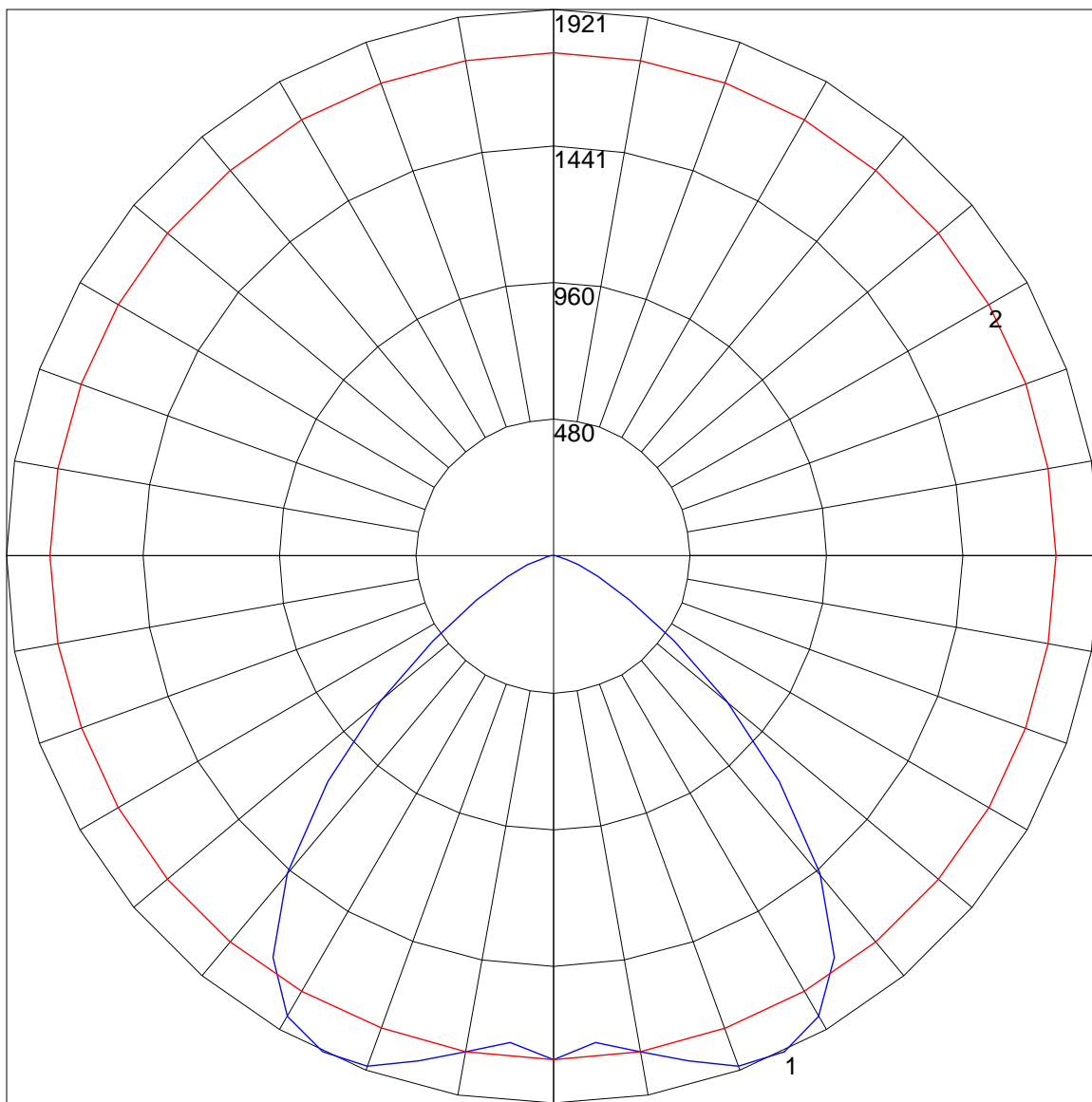
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**UGR TABLE - CORRECTED**

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	24.7	26.1	25.1	26.4	26.7	24.7	26.1	25.1	26.4	26.7
	3H	25.0	26.2	25.4	26.5	26.9	25.0	26.2	25.4	26.5	26.9
	4H	25.0	26.1	25.4	26.5	26.9	25.0	26.1	25.4	26.5	26.9
	6H	25.0	26.0	25.4	26.4	26.8	25.0	26.0	25.4	26.4	26.8
	8H	24.9	25.9	25.3	26.3	26.7	24.9	25.9	25.3	26.3	26.7
	12H	24.9	25.8	25.3	26.2	26.6	24.9	25.8	25.3	26.2	26.6
4H	2H	24.7	25.9	25.1	26.2	26.6	24.7	25.9	25.1	26.2	26.6
	3H	25.1	26.0	25.5	26.4	26.8	25.1	26.0	25.5	26.4	26.8
	4H	25.1	26.0	25.6	26.4	26.8	25.1	26.0	25.6	26.4	26.8
	6H	25.1	25.8	25.6	26.3	26.7	25.1	25.8	25.6	26.3	26.7
	8H	25.1	25.7	25.5	26.2	26.7	25.1	25.7	25.5	26.2	26.7
	12H	25.0	25.6	25.5	26.1	26.6	25.0	25.6	25.5	26.1	26.6
8H	4H	25.1	25.7	25.5	26.2	26.6	25.1	25.7	25.5	26.2	26.6
	6H	25.0	25.6	25.5	26.1	26.6	25.0	25.6	25.5	26.1	26.6
	8H	25.0	25.5	25.5	26.0	26.5	25.0	25.5	25.5	26.0	26.5
	12H	25.0	25.4	25.5	25.9	26.5	25.0	25.4	25.5	25.9	26.5
12H	4H	25.0	25.6	25.5	26.1	26.6	25.0	25.6	25.5	26.1	26.6
	6H	25.0	25.5	25.5	25.9	26.5	25.0	25.5	25.5	25.9	26.5
	8H	25.0	25.4	25.5	25.9	26.5	25.0	25.4	25.5	25.9	26.5

Maximum UGR = 26.9

POLAR GRAPH



Maximum Candela = 1920.73 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)