



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BL716LEDHTMOASYWT40120-277V\_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] Mon Aug 05 09:49:46 2019

[TEST] 1

[MANUFAC] BEGHELLI

[LUMCAT]

[LUMINAIRE] BL716LEDHTMOASYWT40120-277V

[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	2971
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	30
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.40
Spacing Criterion (90-270)	1.40
Spacing Criterion (Diagonal)	1.54
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	8053	7285	25785
55	6552	6381	15914
65	3462	3570	6848
75	1460	1364	2358
85	412	299	390

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**CANDELA TABULATION**

	<u>0</u>	<u>10</u>	<u>20</u>	<u>30</u>	<u>40</u>	<u>50</u>	<u>60</u>	<u>70</u>	<u>80</u>	<u>90</u>
<b>0</b>	1093.88	1093.88	1093.88	1093.88	1093.88	1093.88	1093.88	1093.88	1093.88	1093.88
<b>5</b>	818.17	837.45	856.33	873.24	901.84	935.39	958.92	1006.40	1033.46	1062.79
<b>10</b>	619.97	623.12	643.82	679.80	728.54	791.69	864.04	937.99	1012.33	1078.86
<b>15</b>	401.17	408.63	437.93	495.08	552.05	636.70	747.27	860.81	990.78	1103.88
<b>20</b>	268.46	271.61	291.70	332.28	391.66	491.72	619.18	778.79	942.89	1113.52
<b>25</b>	208.47	208.46	220.66	242.77	288.31	366.86	494.25	674.28	875.45	1087.37
<b>30</b>	207.00	207.48	209.85	217.79	235.62	286.80	390.83	562.65	795.86	1041.67
<b>35</b>	233.67	228.64	226.93	223.06	228.18	252.44	320.35	469.31	704.76	980.51
<b>40</b>	249.03	248.15	246.18	245.16	238.94	241.36	275.12	387.57	606.76	890.10
<b>45</b>	247.59	245.14	252.94	251.40	250.28	242.26	250.57	315.11	495.82	758.78
<b>50</b>	223.71	224.66	231.69	240.57	241.15	233.87	227.47	259.94	387.76	596.68
<b>55</b>	185.34	184.99	192.28	200.03	204.39	201.85	190.88	201.17	279.10	425.86
<b>60</b>	132.00	135.61	141.53	148.27	153.13	153.23	144.04	144.74	184.97	273.69
<b>65</b>	86.45	89.27	93.03	97.71	102.35	103.97	99.79	97.39	115.88	159.42
<b>70</b>	54.00	54.02	55.73	58.73	60.97	62.29	61.47	60.58	68.97	86.81
<b>75</b>	30.51	30.54	32.25	32.16	33.89	34.53	34.76	34.65	37.90	45.02
<b>80</b>	17.69	17.38	17.36	18.16	17.16	17.72	17.54	17.78	18.69	20.75
<b>85</b>	6.66	6.27	6.29	6.25	5.95	6.32	5.60	5.58	5.31	5.58
<b>90</b>	0.03	0.04	0.04	0.04	0.03	0.02	0.02	0.02	0.02	0.02
<b>95</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>100</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>105</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>110</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>115</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>120</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
<b>125</b>	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
<b>130</b>	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00
<b>135</b>	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>140</b>	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00
<b>145</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>150</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>155</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>160</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>165</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>170</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>175</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>180</b>	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>100</u>	<u>110</u>	<u>120</u>	<u>130</u>	<u>140</u>	<u>150</u>	<u>160</u>	<u>170</u>	<u>180</u>
<b>0</b>	1093.88	1093.88	1093.88	1093.88	1093.88	1093.88	1093.88	1093.88	1093.88
<b>5</b>	1096.13	1135.85	1156.55	1180.26	1213.10	1243.87	1254.65	1265.43	1260.42
<b>10</b>	1153.50	1222.50	1290.40	1336.82	1388.98	1420.15	1457.70	1464.82	1472.70
<b>15</b>	1214.08	1312.58	1414.27	1513.66	1580.19	1649.91	1704.51	1730.78	1733.48
<b>20</b>	1249.93	1410.50	1551.26	1694.92	1815.42	1899.08	1960.49	1981.76	1982.97
<b>25</b>	1289.84	1481.44	1684.95	1866.67	1995.34	2083.07	2127.13	2139.84	2142.99
<b>30</b>	1282.49	1519.84	1755.13	1953.62	2083.49	2154.44	2170.22	2166.26	2149.47
<b>35</b>	1255.12	1528.63	1791.11	1968.72	2074.71	2113.80	2113.56	2093.07	2073.63
<b>40</b>	1175.28	1467.32	1710.59	1858.18	1931.73	1959.69	1937.36	1910.54	1891.13
<b>45</b>	1041.66	1304.25	1507.70	1616.97	1662.07	1658.19	1623.88	1581.43	1552.37
<b>50</b>	839.23	1060.51	1215.44	1276.99	1285.73	1263.33	1214.56	1171.17	1151.77
<b>55</b>	593.57	752.66	859.91	889.14	876.74	837.32	784.91	744.11	727.68
<b>60</b>	375.21	471.05	531.52	544.64	522.58	479.52	437.53	409.88	394.61

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CANDELA TABULATION - (Cont.)

65	212.90	262.86	293.11	295.09	274.17	244.35	219.56	202.46	195.92
70	111.16	132.81	146.23	143.32	129.84	117.31	104.40	96.77	93.74
75	54.10	63.26	65.90	63.23	58.25	53.16	47.87	42.70	43.46
80	23.31	26.03	25.91	24.50	22.15	19.77	17.23	15.68	15.07
85	5.97	5.63	5.09	3.89	2.70	2.00	1.45	1.18	1.13
90	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01
95	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
105	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
115	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
125	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
135	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
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	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	408.85	N.A.	13.80
0-30	928.07	N.A.	31.20
0-40	1608.2	N.A.	54.10
0-60	2727.79	N.A.	91.80
0-80	2963.13	N.A.	99.70
0-90	2971.05	N.A.	100.00
10-90	2869.42	N.A.	96.60
20-40	1199.36	N.A.	40.40
20-50	1874.04	N.A.	63.10
40-70	1302.53	N.A.	43.80
60-80	235.34	N.A.	7.90
70-80	52.40	N.A.	1.80
80-90	7.92	N.A.	0.30
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	2971.06	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	101.63
10-20	307.21
20-30	519.22
30-40	680.13
40-50	674.68
50-60	444.91
60-70	182.94
70-80	52.40
80-90	7.92
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	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88
2	102	95	89	85	100	93	88	84	90	85	82	87	83	80	84	81	78	76
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66
4	87	76	68	62	84	75	67	62	72	66	61	70	64	60	68	63	59	57
5	80	68	60	54	78	67	59	54	65	58	53	63	57	52	61	56	52	50
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	47	42	54	47	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	28

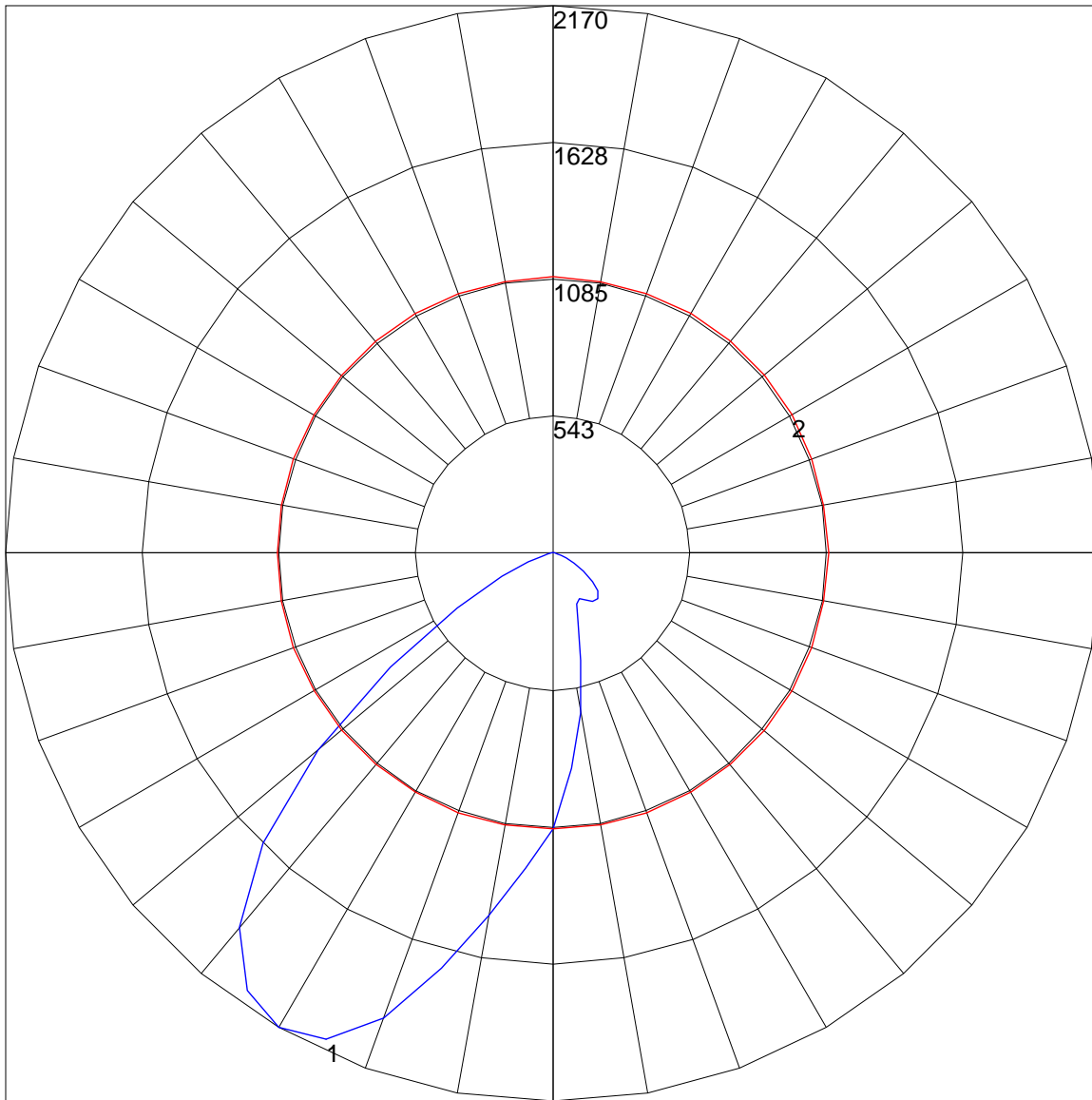
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**UGR TABLE - CORRECTED**

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	18.3	19.8	18.6	20.1	20.4	24.9	26.4	25.3	26.7	27.0
	3H	18.9	20.2	19.3	20.6	20.9	25.2	26.5	25.6	26.8	27.2
	4H	19.0	20.3	19.4	20.6	21.0	25.2	26.4	25.6	26.8	27.2
	6H	19.1	20.2	19.5	20.6	21.0	25.2	26.3	25.6	26.7	27.1
	8H	19.1	20.1	19.5	20.5	20.9	25.1	26.2	25.6	26.6	27.0
	12H	19.0	20.1	19.5	20.5	20.9	25.1	26.1	25.5	26.5	26.9
4H	2H	18.6	19.9	19.0	20.2	20.6	25.1	26.3	25.5	26.7	27.0
	3H	19.4	20.4	19.8	20.8	21.2	25.4	26.4	25.9	26.9	27.3
	4H	19.5	20.4	20.0	20.8	21.3	25.5	26.4	25.9	26.8	27.2
	6H	19.6	20.4	20.1	20.8	21.3	25.5	26.2	25.9	26.7	27.1
	8H	19.6	20.3	20.1	20.8	21.2	25.4	26.1	25.9	26.6	27.1
	12H	19.6	20.2	20.1	20.7	21.2	25.4	26.0	25.9	26.5	27.0
8H	4H	19.5	20.3	20.0	20.7	21.2	25.4	26.1	25.9	26.6	27.0
	6H	19.6	20.2	20.1	20.7	21.2	25.4	26.0	25.9	26.5	26.9
	8H	19.6	20.2	20.2	20.7	21.2	25.3	25.9	25.8	26.4	26.9
	12H	19.6	20.1	20.1	20.6	21.2	25.3	25.8	25.8	26.3	26.8
12H	4H	19.5	20.2	20.0	20.6	21.1	25.4	26.0	25.9	26.5	27.0
	6H	19.6	20.2	20.1	20.6	21.2	25.3	25.9	25.9	26.3	26.9
	8H	19.6	20.1	20.1	20.6	21.2	25.3	25.8	25.8	26.3	26.8

Maximum UGR = 27.3

POLAR GRAPH



Maximum Candela = 2170.22 Located At Horizontal Angle = 160, Vertical Angle = 30  
# 1 - Vertical Plane Through Horizontal Angles (160 - 340) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0)