



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BX910LEDECO4HTLOWT40120-277V\_S.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TESTLAB] Photopia 2020.1.0 see: [www.ltioptics.com/ies](http://www.ltioptics.com/ies)

[ISSUEDATE]

[TESTDATE] Tue May 25 14:28:28 2021

[TEST] 1

[MANUFAC]

[LUMCAT]

[LUMINAIRE] BX910LEDECO4HTLOWT40120-277V\_S

[LAMP] LED 0.72W LUXEON 3030 2D Line (120mA)

[LAMPCAT] L130-3580003000X21

[OTHER]

### CHARACTERISTICS

Lumens Per Lamp	33.9 (144 lamps)
Total Lamp Lumens	4881.6
Luminaire Lumens	4295
Total Luminaire Efficiency	88 %
Luminaire Efficacy Rating (LER)	143
Total Luminaire Watts	30
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.96 ft
Luminous Width (90-270)	0.35 ft
Luminous Height	0.29 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	11798	7785	6984
55	9181	5352	4692
65	5075	2505	2139
75	2148	819	677
85	401	90	71

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CANDELA TABULATION

	<u>0</u>
0.0	1727.17
2.5	1761.93
5.0	1725.57
7.5	1730.06
10.0	1720.29
12.5	1721.69
15.0	1717.45
17.5	1698.61
20.0	1675.40
22.5	1639.20
25.0	1603.91
27.5	1563.85
30.0	1523.86
32.5	1475.22
35.0	1420.75
37.5	1365.35
40.0	1309.22
42.5	1244.28
45.0	1167.98
47.5	1088.97
50.0	988.94
52.5	874.98
55.0	758.65
57.5	635.66
60.0	517.87
62.5	412.11
65.0	323.53
67.5	247.38
70.0	186.24
72.5	133.53
75.0	92.23
77.5	60.27
80.0	35.78
82.5	19.40
85.0	8.35
87.5	2.12
90.0	0.13
92.5	0.00
95.0	0.00
97.5	0.00
100.0	0.00
102.5	0.00
105.0	0.00
107.5	0.00
110.0	0.00
112.5	0.00
115.0	0.00
117.5	0.00
120.0	0.00
122.5	0.00
125.0	0.00
127.5	0.00
130.0	0.00
132.5	0.00

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	0.00
<b>137.5</b>	0.00
<b>140.0</b>	0.00
<b>142.5</b>	0.00
<b>145.0</b>	0.00
<b>147.5</b>	0.00
<b>150.0</b>	0.00
<b>152.5</b>	0.00
<b>155.0</b>	0.00
<b>157.5</b>	0.00
<b>160.0</b>	0.00
<b>162.5</b>	0.00
<b>165.0</b>	0.00
<b>167.5</b>	0.00
<b>170.0</b>	0.00
<b>172.5</b>	0.00
<b>175.0</b>	0.00
<b>177.5</b>	0.00
<b>180.0</b>	0.00

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	648.97	13.30	15.10
0-30	1388.27	28.40	32.30
0-40	2277.32	46.70	53.00
0-60	3848.23	78.80	89.60
0-80	4281.87	87.70	99.70
0-90	4294.87	88.00	100.00
10-90	4129.66	84.60	96.20
20-40	1628.35	33.40	37.90
20-50	2525.37	51.70	58.80
40-70	1900.12	38.90	44.20
60-80	433.64	8.90	10.10
70-80	104.43	2.10	2.40
80-90	13.00	0.30	0.30
90-110	0.02	0.00	0.00
90-120	0.02	0.00	0.00
90-130	0.02	0.00	0.00
90-150	0.02	0.00	0.00
90-180	0.02	0.00	0.00
110-180	0.00	0.00	0.00
0-180	4294.89	88.00	100.00

Total Luminaire Efficiency = 88.00%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	165.21
10-20	483.76
20-30	739.30
30-40	889.05
40-50	897.01
50-60	673.90
60-70	329.21
70-80	104.43
80-90	13.00
90-100	0.02
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	105	105	105	105	102	102	102	102	98	98	98	94	94	94	90	90	90	88
1	97	94	91	88	95	92	89	86	88	86	84	85	83	81	82	80	79	77
2	90	83	78	74	87	82	77	73	79	75	71	76	72	70	73	70	68	66
3	82	74	68	63	80	73	67	62	70	65	61	68	64	60	66	62	59	57
4	76	66	59	54	74	65	59	53	63	57	53	61	56	52	59	55	51	50
5	70	60	52	47	68	59	52	47	57	51	46	55	50	46	54	49	45	43
6	65	54	46	41	63	53	46	41	51	45	41	50	45	40	49	44	40	38
7	60	49	42	37	59	48	41	36	47	41	36	46	40	36	45	40	36	34
8	56	45	38	33	55	44	37	33	43	37	32	42	36	32	41	36	32	30
9	52	41	34	30	51	41	34	29	40	34	29	39	33	29	38	33	29	27
10	49	38	31	27	48	38	31	27	37	31	27	36	30	27	35	30	26	25

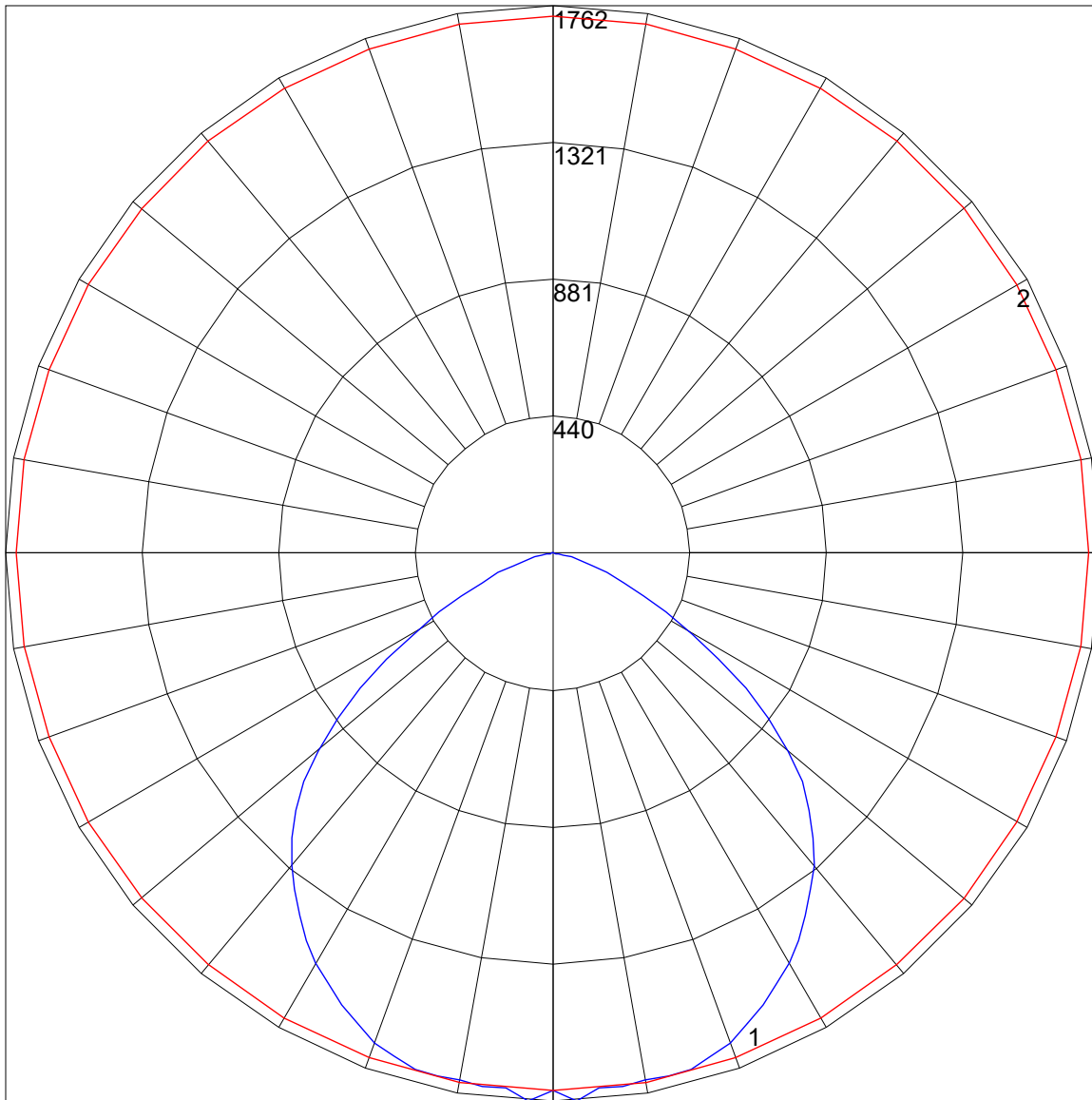
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**UGR TABLE - CORRECTED**

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	18.1	19.6	18.5	19.9	20.2	18.1	19.6	18.5	19.9	20.2
	3H	18.7	20.0	19.1	20.4	20.7	18.7	20.0	19.1	20.4	20.7
	4H	18.8	20.0	19.2	20.4	20.8	18.8	20.0	19.2	20.4	20.8
	6H	18.8	20.0	19.2	20.3	20.7	18.8	20.0	19.2	20.3	20.7
	8H	18.8	19.9	19.2	20.3	20.7	18.8	19.9	19.2	20.3	20.7
	12H	18.8	19.8	19.2	20.2	20.6	18.8	19.8	19.2	20.2	20.6
4H	2H	18.2	19.5	18.6	19.8	20.2	18.2	19.5	18.6	19.8	20.2
	3H	18.9	19.9	19.3	20.3	20.7	18.9	19.9	19.3	20.3	20.7
	4H	19.0	19.9	19.4	20.3	20.8	19.0	19.9	19.4	20.3	20.8
	6H	19.0	19.8	19.5	20.3	20.7	19.0	19.8	19.5	20.3	20.7
	8H	19.0	19.7	19.5	20.2	20.7	19.0	19.7	19.5	20.2	20.7
	12H	19.0	19.6	19.5	20.1	20.6	19.0	19.6	19.5	20.1	20.6
8H	4H	19.0	19.7	19.4	20.1	20.6	19.0	19.7	19.4	20.1	20.6
	6H	19.0	19.6	19.5	20.1	20.5	19.0	19.6	19.5	20.1	20.5
	8H	18.9	19.5	19.5	20.0	20.5	18.9	19.5	19.5	20.0	20.5
	12H	18.9	19.4	19.4	19.9	20.5	18.9	19.4	19.4	19.9	20.5
12H	4H	18.9	19.6	19.4	20.1	20.5	18.9	19.6	19.4	20.1	20.5
	6H	18.9	19.5	19.5	19.9	20.5	18.9	19.5	19.5	19.9	20.5
	8H	18.9	19.4	19.4	19.9	20.5	18.9	19.4	19.4	19.9	20.5

Maximum UGR = 20.8

POLAR GRAPH



Maximum Candela = 1761.93 Located At Horizontal Angle = 0, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0)