



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BX910LEDECO4HTHOWT50120-277V_S.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

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

[ISSUEDATE]

[TESTDATE] Tue May 25 15:33:09 2021

[TEST] 1

[MANUFAC]

[LUMCAT]

[LUMINAIRE] BX910LEDECO4HTHOWT50120-277V_S

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

[LAMPCAT] L130-3580003000X21

[OTHER]

CHARACTERISTICS

Lumens Per Lamp	56.5 (144 lamps)
Total Lamp Lumens	8136
Luminaire Lumens	7155
Total Luminaire Efficiency	88 %
Luminaire Efficacy Rating (LER)	143
Total Luminaire Watts	50
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.38
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	19750	13032	11691
55	15312	8926	7825
65	8456	4174	3565
75	3581	1365	1129
85	674	151	120

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CANDELA TABULATION

	<u>0</u>
0.0	2951.69
2.5	2909.58
5.0	2891.82
7.5	2869.79
10.0	2856.78
12.5	2883.61
15.0	2875.98
17.5	2827.29
20.0	2794.28
22.5	2745.50
25.0	2670.62
27.5	2607.64
30.0	2537.37
32.5	2453.09
35.0	2361.37
37.5	2271.35
40.0	2173.27
42.5	2065.60
45.0	1955.22
47.5	1803.79
50.0	1647.96
52.5	1461.90
55.0	1265.29
57.5	1061.91
60.0	861.47
62.5	686.77
65.0	539.08
67.5	414.42
70.0	310.10
72.5	223.30
75.0	153.76
77.5	99.60
80.0	60.79
82.5	31.51
85.0	14.02
87.5	3.20
90.0	0.23
92.5	0.01
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.)

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

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1082.48	13.30	15.10
0-30	2315.86	28.50	32.40
0-40	3794.14	46.60	53.00
0-60	6410.72	78.80	89.60
0-80	7133.8	87.70	99.70
0-90	7155.33	87.90	100.00
10-90	6880.42	84.60	96.20
20-40	2711.65	33.30	37.90
20-50	4203.74	51.70	58.70
40-70	3165.52	38.90	44.20
60-80	723.07	8.90	10.10
70-80	174.14	2.10	2.40
80-90	21.53	0.30	0.30
90-110	0.03	0.00	0.00
90-120	0.03	0.00	0.00
90-130	0.03	0.00	0.00
90-150	0.03	0.00	0.00
90-180	0.03	0.00	0.00
110-180	0.00	0.00	0.00
0-180	7155.36	87.90	100.00

Total Luminaire Efficiency = 87.90%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	274.91
10-20	807.57
20-30	1233.38
30-40	1478.27
40-50	1492.09
50-60	1124.49
60-70	548.93
70-80	174.14
80-90	21.53
90-100	0.03
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	37	31	27	37	31	27	36	30	27	35	30	26	25

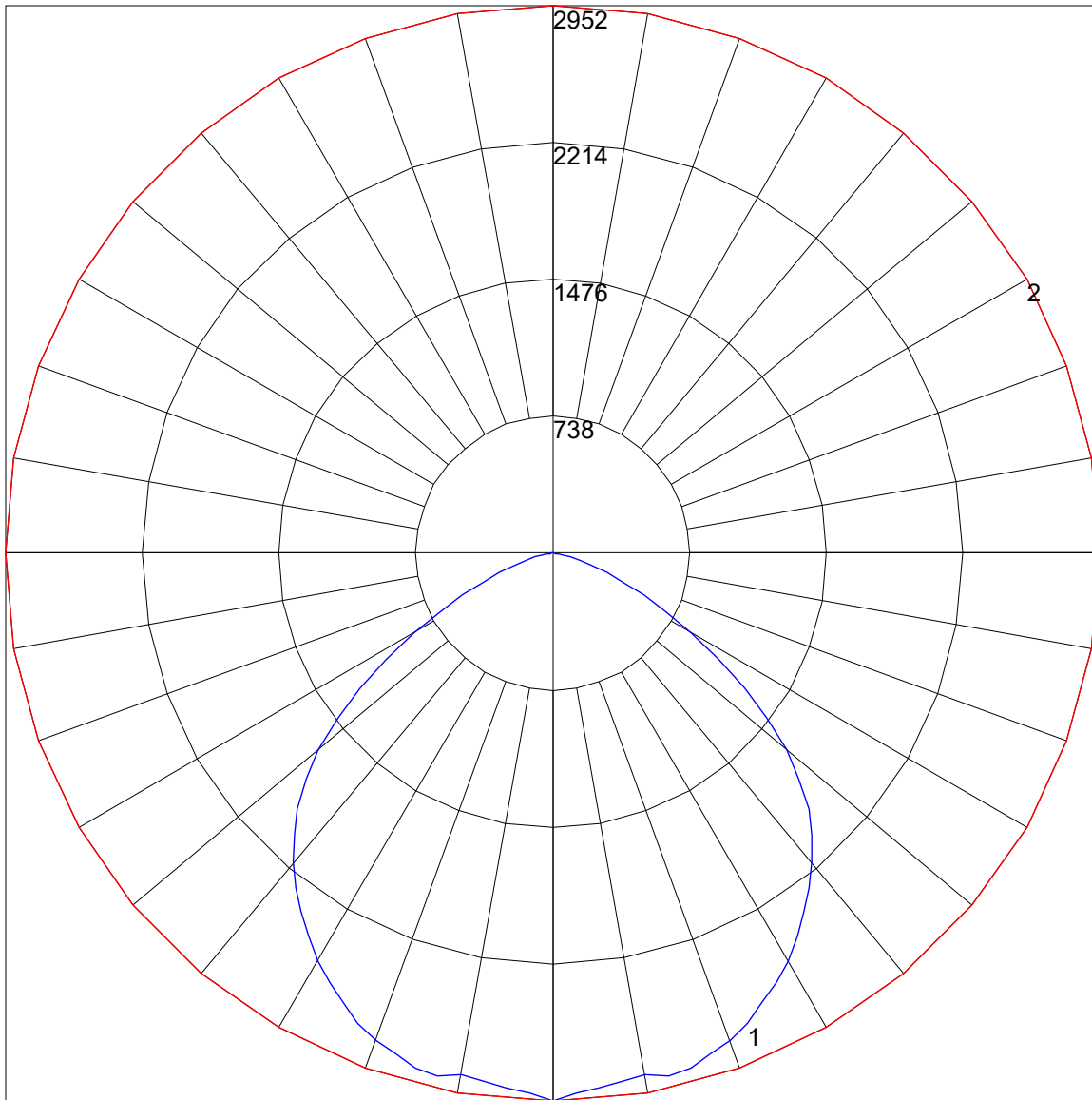
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UGR TABLE - CORRECTED

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	19.9	21.4	20.3	21.7	22.1	19.9	21.4	20.3	21.7	22.1
	3H	20.5	21.9	20.9	22.2	22.6	20.5	21.9	20.9	22.2	22.6
	4H	20.6	21.9	21.0	22.2	22.6	20.6	21.9	21.0	22.2	22.6
	6H	20.6	21.8	21.0	22.1	22.5	20.6	21.8	21.0	22.1	22.5
	8H	20.6	21.7	21.0	22.1	22.5	20.6	21.7	21.0	22.1	22.5
	12H	20.6	21.6	21.0	22.0	22.4	20.6	21.6	21.0	22.0	22.4
4H	2H	20.0	21.3	20.4	21.6	22.0	20.0	21.3	20.4	21.6	22.0
	3H	20.7	21.7	21.1	22.1	22.5	20.7	21.7	21.1	22.1	22.5
	4H	20.8	21.7	21.3	22.2	22.6	20.8	21.7	21.3	22.2	22.6
	6H	20.8	21.6	21.3	22.1	22.5	20.8	21.6	21.3	22.1	22.5
	8H	20.8	21.6	21.3	22.0	22.5	20.8	21.6	21.3	22.0	22.5
	12H	20.8	21.4	21.3	21.9	22.4	20.8	21.4	21.3	21.9	22.4
8H	4H	20.8	21.5	21.2	22.0	22.4	20.8	21.5	21.2	22.0	22.4
	6H	20.8	21.4	21.3	21.9	22.4	20.8	21.4	21.3	21.9	22.4
	8H	20.8	21.3	21.3	21.8	22.3	20.8	21.3	21.3	21.8	22.3
	12H	20.7	21.2	21.2	21.7	22.3	20.7	21.2	21.2	21.7	22.3
12H	4H	20.7	21.4	21.2	21.9	22.3	20.7	21.4	21.2	21.9	22.3
	6H	20.7	21.3	21.3	21.8	22.3	20.7	21.3	21.3	21.8	22.3
	8H	20.7	21.2	21.2	21.7	22.3	20.7	21.2	21.2	21.7	22.3

Maximum UGR = 22.6

POLAR GRAPH



Maximum Candela = 2951.69 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0)