



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BX910LEDECO4HTLOWT30120-277_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 13:19:26 2021

[TEST] 1

[MANUFAC]

[LUMCAT]

[LUMINAIRE] BX910LEDECO4HTLOWT30120-277_S

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

[LAMPCAT] L130-3580003000X21

[OTHER]

CHARACTERISTICS

Lumens Per Lamp	32 (144 lamps)
Total Lamp Lumens	4608
Luminaire Lumens	4054
Total Luminaire Efficiency	88 %
Luminaire Efficacy Rating (LER)	135
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)	1.38
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	11177	7375	6616
55	8685	5063	4438
65	4776	2357	2013
75	2051	782	647
85	392	88	70

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CANDELA TABULATION

	<u>0</u>
0.0	1649.45
2.5	1659.36
5.0	1630.37
7.5	1626.78
10.0	1625.31
12.5	1618.28
15.0	1619.18
17.5	1604.02
20.0	1577.86
22.5	1546.13
25.0	1510.61
27.5	1478.55
30.0	1436.18
32.5	1384.83
35.0	1344.81
37.5	1289.36
40.0	1236.77
42.5	1170.97
45.0	1106.50
47.5	1026.99
50.0	933.25
52.5	829.54
55.0	717.63
57.5	602.13
60.0	490.48
62.5	388.56
65.0	304.46
67.5	233.49
70.0	175.66
72.5	125.99
75.0	88.05
77.5	56.14
80.0	34.10
82.5	18.24
85.0	8.16
87.5	1.94
90.0	0.10
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.)

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	611.82	13.30	15.10
0-30	1309.13	28.40	32.30
0-40	2147.81	46.60	53.00
0-60	3632.42	78.80	89.60
0-80	4041.65	87.70	99.70
0-90	4054.00	88.00	100.00
10-90	3898.21	84.60	96.20
20-40	1535.99	33.30	37.90
20-50	2382.7	51.70	58.80
40-70	1795.2	39.00	44.30
60-80	409.23	8.90	10.10
70-80	98.65	2.10	2.40
80-90	12.35	0.30	0.30
90-110	0.01	0.00	0.00
90-120	0.01	0.00	0.00
90-130	0.01	0.00	0.00
90-150	0.01	0.00	0.00
90-180	0.01	0.00	0.00
110-180	0.00	0.00	0.00
0-180	4054.02	88.00	100.00

Total Luminaire Efficiency = 88.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	155.80
10-20	456.02
20-30	697.31
30-40	838.68
40-50	846.71
50-60	637.90
60-70	310.59
70-80	98.65
80-90	12.35
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	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

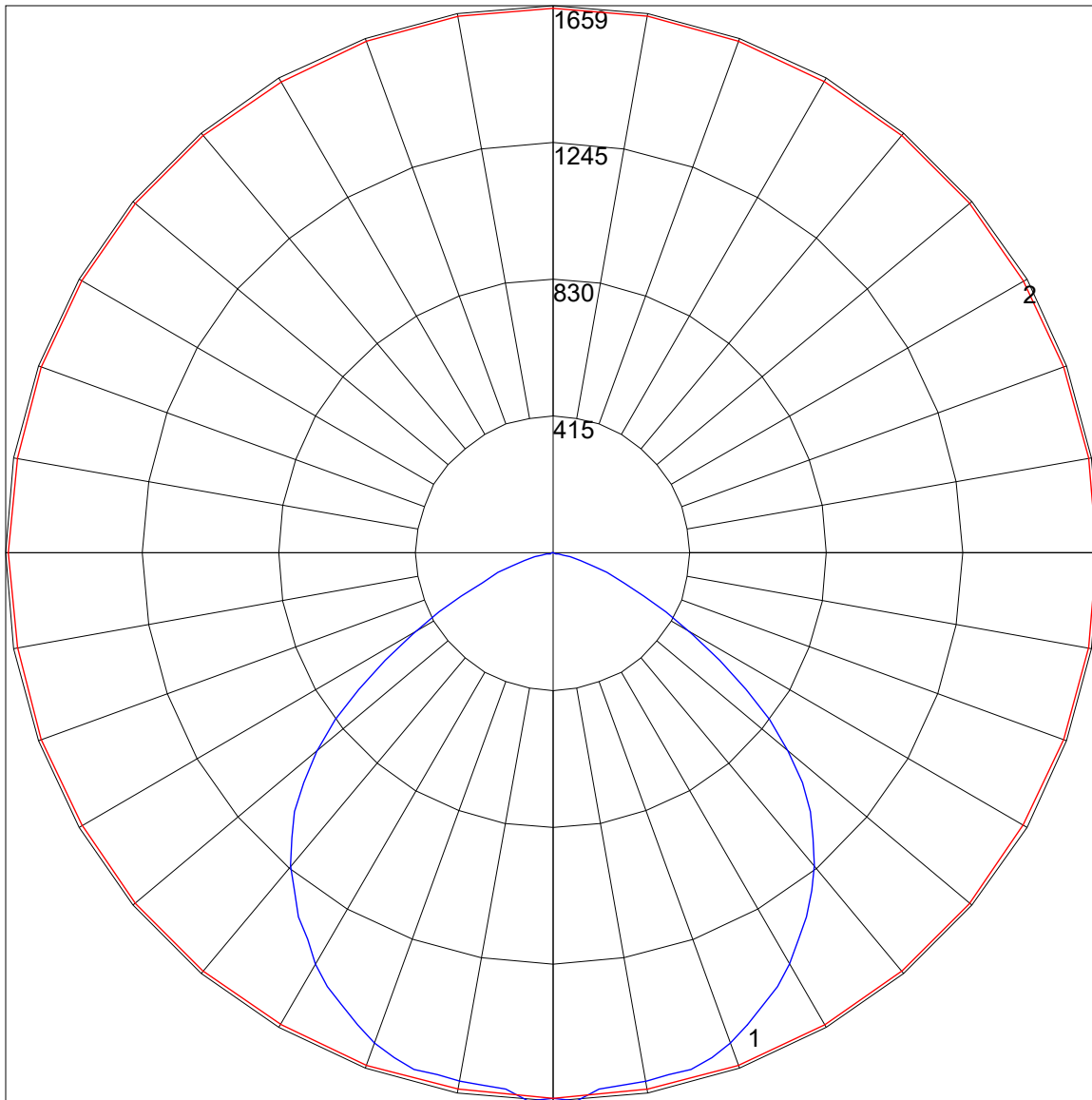
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UGR TABLE - CORRECTED

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	17.9	19.4	18.3	19.8	20.1	17.9	19.4	18.3	19.8	20.1
	3H	18.5	19.9	18.9	20.2	20.6	18.5	19.9	18.9	20.2	20.6
	4H	18.6	19.9	19.0	20.2	20.6	18.6	19.9	19.0	20.2	20.6
	6H	18.6	19.8	19.0	20.1	20.5	18.6	19.8	19.0	20.1	20.5
	8H	18.6	19.7	19.0	20.1	20.5	18.6	19.7	19.0	20.1	20.5
	12H	18.6	19.6	19.0	20.0	20.4	18.6	19.6	19.0	20.0	20.4
4H	2H	18.0	19.3	18.4	19.6	20.0	18.0	19.3	18.4	19.6	20.0
	3H	18.7	19.7	19.1	20.1	20.5	18.7	19.7	19.1	20.1	20.5
	4H	18.8	19.7	19.3	20.2	20.6	18.8	19.7	19.3	20.2	20.6
	6H	18.8	19.6	19.3	20.1	20.5	18.8	19.6	19.3	20.1	20.5
	8H	18.8	19.6	19.3	20.0	20.5	18.8	19.6	19.3	20.0	20.5
	12H	18.8	19.5	19.3	19.9	20.4	18.8	19.5	19.3	19.9	20.4
8H	4H	18.8	19.5	19.2	20.0	20.4	18.8	19.5	19.2	20.0	20.4
	6H	18.8	19.4	19.3	19.9	20.4	18.8	19.4	19.3	19.9	20.4
	8H	18.8	19.3	19.3	19.8	20.3	18.8	19.3	19.3	19.8	20.3
	12H	18.7	19.2	19.2	19.7	20.3	18.7	19.2	19.2	19.7	20.3
12H	4H	18.7	19.4	19.2	19.9	20.3	18.7	19.4	19.2	19.9	20.3
	6H	18.7	19.3	19.3	19.8	20.3	18.7	19.3	19.3	19.8	20.3
	8H	18.7	19.2	19.2	19.7	20.3	18.7	19.2	19.2	19.7	20.3

Maximum UGR = 20.6

POLAR GRAPH



Maximum Candela = 1659.36 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)