



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BX910LEDECO4HTHOWT30120-277V_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 15:22:08 2021

[TEST] 1

[MANUFAC]

[LUMCAT]

[LUMINAIRE] BX910LEDECO4HTHOWT30120-277V_S

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

[LAMPCAT] L130-3580003000X21

[OTHER]

CHARACTERISTICS

Lumens Per Lamp	53.3 (144 lamps)
Total Lamp Lumens	7675.2
Luminaire Lumens	6752
Total Luminaire Efficiency	88 %
Luminaire Efficacy Rating (LER)	135
Total Luminaire Watts	50
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.36
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	18601	12274	11011
55	14457	8427	7388
65	7974	3936	3362
75	3366	1283	1061
85	618	139	110

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CANDELA TABULATION

	<u>0</u>
0.0	2858.17
2.5	2777.88
5.0	2751.19
7.5	2712.80
10.0	2704.58
12.5	2692.17
15.0	2686.29
17.5	2668.93
20.0	2627.67
22.5	2582.26
25.0	2531.99
27.5	2459.38
30.0	2391.00
32.5	2317.12
35.0	2232.08
37.5	2146.87
40.0	2052.88
42.5	1947.05
45.0	1841.53
47.5	1709.45
50.0	1557.00
52.5	1379.96
55.0	1194.58
57.5	998.46
60.0	818.03
62.5	648.47
65.0	508.35
67.5	390.46
70.0	291.13
72.5	209.02
75.0	144.51
77.5	94.67
80.0	56.88
82.5	30.59
85.0	12.86
87.5	3.07
90.0	0.19
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	1019.21	13.30	15.10
0-30	2182.72	28.40	32.30
0-40	3579.14	46.60	53.00
0-60	6049.26	78.80	89.60
0-80	6731.19	87.70	99.70
0-90	6751.58	88.00	100.00
10-90	6490.67	84.60	96.10
20-40	2559.93	33.40	37.90
20-50	3968.73	51.70	58.80
40-70	2988.39	38.90	44.30
60-80	681.93	8.90	10.10
70-80	163.65	2.10	2.40
80-90	20.40	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	6751.61	88.00	100.00

Total Luminaire Efficiency = 88.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	260.91
10-20	758.30
20-30	1163.51
30-40	1396.42
40-50	1408.79
50-60	1061.32
60-70	518.27
70-80	163.65
80-90	20.40
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

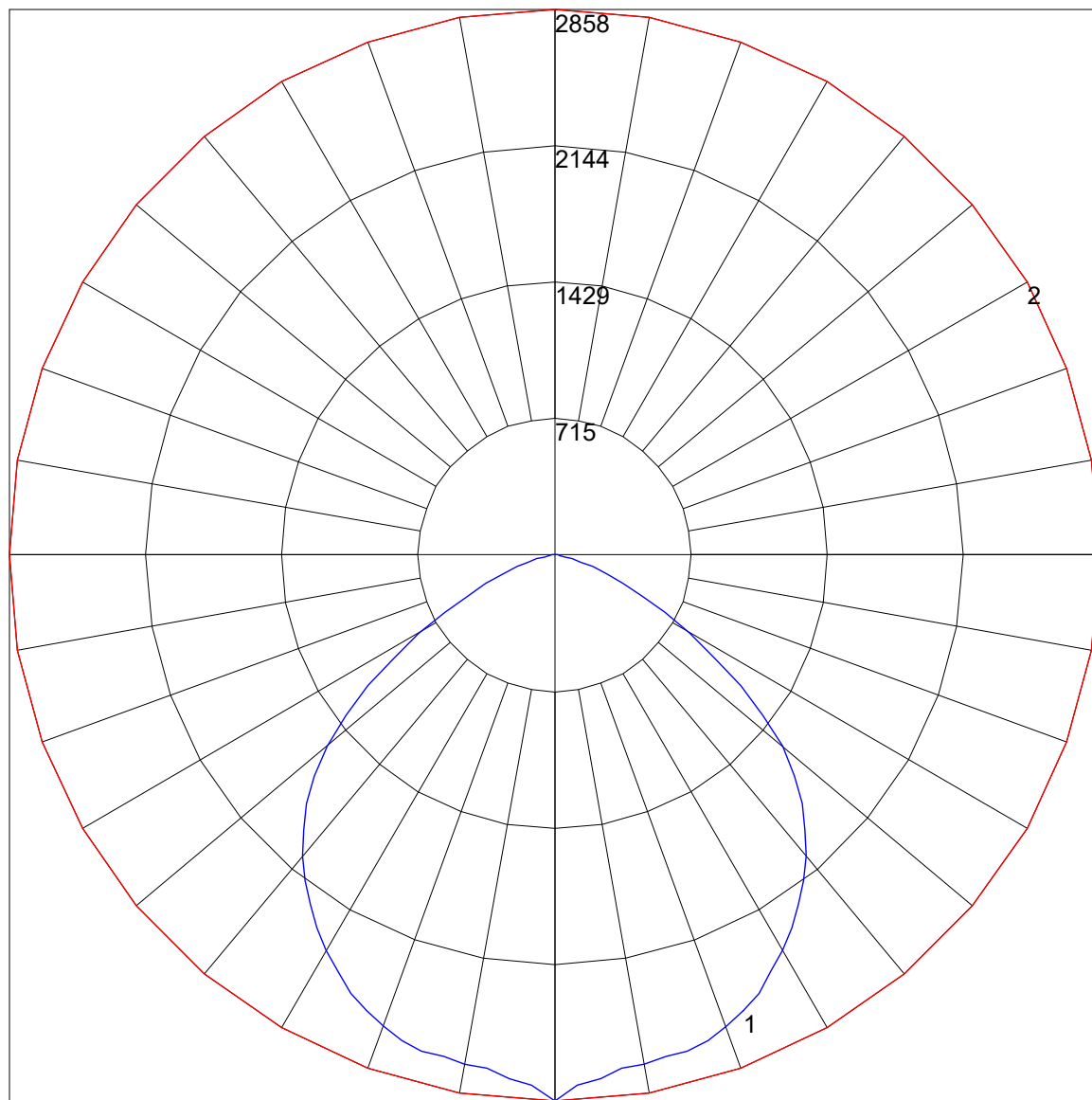
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UGR TABLE - CORRECTED

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	19.7	21.2	20.1	21.5	21.8	19.7	21.2	20.1	21.5	21.8
	3H	20.3	21.6	20.7	22.0	22.3	20.3	21.6	20.7	22.0	22.3
	4H	20.4	21.6	20.8	22.0	22.4	20.4	21.6	20.8	22.0	22.4
	6H	20.4	21.5	20.8	21.9	22.3	20.4	21.5	20.8	21.9	22.3
	8H	20.4	21.5	20.8	21.9	22.3	20.4	21.5	20.8	21.9	22.3
	12H	20.3	21.4	20.8	21.8	22.2	20.3	21.4	20.8	21.8	22.2
4H	2H	19.8	21.1	20.2	21.4	21.8	19.8	21.1	20.2	21.4	21.8
	3H	20.5	21.5	20.9	21.9	22.3	20.5	21.5	20.9	21.9	22.3
	4H	20.6	21.5	21.0	21.9	22.4	20.6	21.5	21.0	21.9	22.4
	6H	20.6	21.4	21.1	21.9	22.3	20.6	21.4	21.1	21.9	22.3
	8H	20.6	21.3	21.1	21.8	22.3	20.6	21.3	21.1	21.8	22.3
	12H	20.6	21.2	21.0	21.7	22.2	20.6	21.2	21.0	21.7	22.2
8H	4H	20.6	21.3	21.0	21.7	22.2	20.6	21.3	21.0	21.7	22.2
	6H	20.6	21.2	21.1	21.7	22.1	20.6	21.2	21.1	21.7	22.1
	8H	20.5	21.1	21.1	21.6	22.1	20.5	21.1	21.1	21.6	22.1
	12H	20.5	21.0	21.0	21.5	22.1	20.5	21.0	21.0	21.5	22.1
12H	4H	20.5	21.2	21.0	21.7	22.1	20.5	21.2	21.0	21.7	22.1
	6H	20.5	21.1	21.1	21.5	22.1	20.5	21.1	21.1	21.5	22.1
	8H	20.5	21.0	21.0	21.5	22.0	20.5	21.0	21.0	21.5	22.0

Maximum UGR = 22.4

POLAR GRAPH



Maximum Candela = 2858.17 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)