



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BX940LED4HTLOWT30120-277V_S.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

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

[ISSUEDATE]

[TESTDATE] Fri May 28 12:18:53 2021

[TEST] 1

[MANUFAC] BEGHELLI

[LUMCAT]

[LUMINAIRE] BX940LED4HTLOWT30120-277V_S

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

[LAMPCAT] L130-3580003000X21

[OTHER]

CHARACTERISTICS

Lumens Per Lamp	39.1 (384 lamps)
Total Lamp Lumens	15014.4
Luminaire Lumens	12911
Total Luminaire Efficiency	86 %
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	100
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)	4.35 ft
Luminous Width (90-270)	1.03 ft
Luminous Height	0.29 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	10345	8847	8603
55	8915	7216	6956
65	6790	5072	4832
75	3901	2535	2372
85	1312	605	547

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CANDELA TABULATION

	<u>0</u>
0.0	4854.11
2.5	4795.88
5.0	4728.56
7.5	4673.74
10.0	4669.71
12.5	4683.88
15.0	4669.25
17.5	4616.71
20.0	4566.35
22.5	4478.15
25.0	4417.50
27.5	4315.18
30.0	4215.01
32.5	4084.08
35.0	3948.15
37.5	3802.84
40.0	3626.45
42.5	3459.91
45.0	3258.83
47.5	3050.77
50.0	2817.36
52.5	2589.64
55.0	2339.43
57.5	2094.26
60.0	1847.28
62.5	1602.92
65.0	1370.47
67.5	1149.21
70.0	932.05
72.5	718.24
75.0	527.19
77.5	366.16
80.0	245.93
82.5	150.16
85.0	84.39
87.5	37.71
90.0	4.50
92.5	0.09
95.0	0.05
97.5	0.04
100.0	0.04
102.5	0.03
105.0	0.02
107.5	0.01
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	1764.95	11.80	13.70
0-30	3797.12	25.30	29.40
0-40	6264.49	41.70	48.50
0-60	10861.19	72.30	84.10
0-80	12802.63	85.30	99.20
0-90	12910.73	86.00	100.00
10-90	12461.37	83.00	96.50
20-40	4499.53	30.00	34.80
20-50	7006.24	46.70	54.30
40-70	5958.83	39.70	46.20
60-80	1941.44	12.90	15.00
70-80	579.31	3.90	4.50
80-90	108.10	0.70	0.80
90-110	0.69	0.00	0.00
90-120	0.69	0.00	0.00
90-130	0.69	0.00	0.00
90-150	0.69	0.00	0.00
90-180	0.69	0.00	0.00
110-180	0.00	0.00	0.00
0-180	12911.42	86.00	100.00

Total Luminaire Efficiency = 86.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	449.36
10-20	1315.59
20-30	2032.16
30-40	2467.37
40-50	2506.71
50-60	2090.00
60-70	1362.13
70-80	579.31
80-90	108.10
90-100	0.67
100-110	0.02
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	102	102	102	102	100	100	100	100	96	96	96	91	91	91	88	88	88	86
1	94	91	87	84	92	89	86	83	85	83	80	82	80	78	79	77	75	74
2	86	80	74	70	84	78	73	69	75	71	67	72	69	66	70	67	64	62
3	79	70	64	58	77	69	63	58	66	61	57	64	60	56	62	58	55	53
4	72	63	55	50	70	61	55	49	59	53	49	57	52	48	55	51	47	46
5	67	56	48	43	65	55	48	43	53	47	42	52	46	42	50	45	41	40
6	62	50	43	38	60	50	43	37	48	42	37	47	41	37	45	40	36	35
7	57	46	38	33	56	45	38	33	44	37	33	43	37	33	41	36	32	31
8	53	42	35	30	52	41	34	30	40	34	29	39	33	29	38	33	29	27
9	50	38	31	27	48	38	31	27	37	31	26	36	30	26	35	30	26	25
10	47	35	29	24	45	35	28	24	34	28	24	33	28	24	32	27	24	22

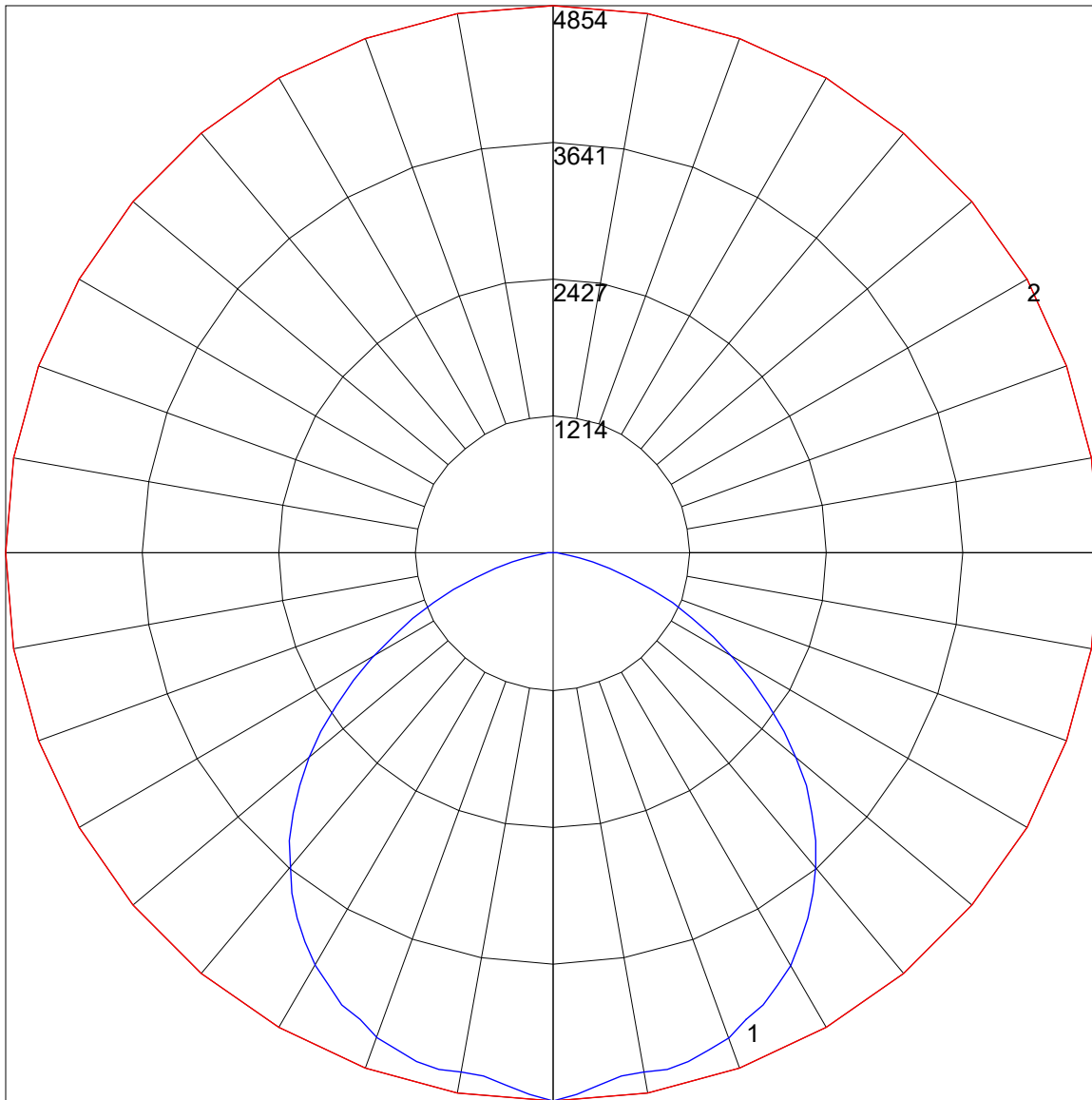
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UGR TABLE - CORRECTED

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	19.2	20.7	19.5	21.1	21.4	19.2	20.7	19.5	21.1	21.4
	3H	20.4	21.8	20.8	22.1	22.5	20.4	21.8	20.8	22.1	22.5
	4H	20.7	22.0	21.1	22.4	22.7	20.7	22.0	21.1	22.4	22.7
	6H	20.8	22.0	21.2	22.4	22.8	20.8	22.0	21.2	22.4	22.8
	8H	20.8	22.0	21.2	22.4	22.8	20.8	22.0	21.2	22.4	22.8
	12H	20.8	21.9	21.2	22.3	22.7	20.8	21.9	21.2	22.3	22.7
4H	2H	19.5	20.9	19.9	21.2	21.6	19.5	20.9	19.9	21.2	21.6
	3H	20.9	22.0	21.3	22.4	22.8	20.9	22.0	21.3	22.4	22.8
	4H	21.2	22.2	21.7	22.7	23.1	21.2	22.2	21.7	22.7	23.1
	6H	21.4	22.3	21.9	22.7	23.2	21.4	22.3	21.9	22.7	23.2
	8H	21.4	22.3	21.9	22.7	23.2	21.4	22.3	21.9	22.7	23.2
	12H	21.5	22.2	21.9	22.7	23.1	21.5	22.2	21.9	22.7	23.1
8H	4H	21.3	22.1	21.8	22.6	23.0	21.3	22.1	21.8	22.6	23.0
	6H	21.5	22.2	22.0	22.7	23.1	21.5	22.2	22.0	22.7	23.1
	8H	21.5	22.1	22.1	22.7	23.1	21.5	22.1	22.1	22.7	23.1
	12H	21.6	22.1	22.1	22.6	23.2	21.6	22.1	22.1	22.6	23.2
12H	4H	21.3	22.0	21.8	22.5	23.0	21.3	22.0	21.8	22.5	23.0
	6H	21.5	22.1	22.0	22.6	23.1	21.5	22.1	22.0	22.6	23.1
	8H	21.5	22.1	22.0	22.6	23.1	21.5	22.1	22.0	22.6	23.1

Maximum UGR = 23.2

POLAR GRAPH



Maximum Candela = 4854.11 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)