



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BX940LED4HTHOWT40120-277V\_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] Fri May 28 13:25:16 2021  
 [TEST] 1  
 [MANUFAC] BEGHELLI  
 [LUMCAT]  
 [LUMINAIRE] BX940LED4HTHOWT40120-277V\_S  
 [LAMP] LED 0.72W LUXEON 3030 2D Line (120mA)  
 [LAMPCAT] L130-3580003000X21  
 [OTHER]

### CHARACTERISTICS

Lumens Per Lamp	66.2 (384 lamps)
Total Lamp Lumens	25420.8
Luminaire Lumens	21856
Total Luminaire Efficiency	86 %
Luminaire Efficacy Rating (LER)	137
Total Luminaire Watts	160
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)	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	17554	15013	14598
55	15157	12269	11826
65	11526	8611	8203
75	6602	4290	4014
85	2201	1015	918

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CANDELA TABULATION

	<u>0</u>
0.0	8245.19
2.5	8095.61
5.0	7944.06
7.5	7904.08
10.0	7906.99
12.5	7908.51
15.0	7857.93
17.5	7798.45
20.0	7704.45
22.5	7599.74
25.0	7429.35
27.5	7275.05
30.0	7101.23
32.5	6920.90
35.0	6675.36
37.5	6418.98
40.0	6163.37
42.5	5851.34
45.0	5529.84
47.5	5186.90
50.0	4792.59
52.5	4388.24
55.0	3977.51
57.5	3553.00
60.0	3131.37
62.5	2720.01
65.0	2326.50
67.5	1942.11
70.0	1575.20
72.5	1214.90
75.0	892.15
77.5	625.62
80.0	412.33
82.5	253.42
85.0	141.56
87.5	64.90
90.0	7.03
92.5	0.10
95.0	0.15
97.5	0.09
100.0	0.07
102.5	0.03
105.0	0.03
107.5	0.01
110.0	0.01
112.5	0.01
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	2978.92	11.70	13.60
0-30	6408.09	25.20	29.30
0-40	10581.28	41.60	48.40
0-60	18382.98	72.30	84.10
0-80	21672.39	85.30	99.20
0-90	21854.5	86.00	100.00
10-90	21095.68	83.00	96.50
20-40	7602.36	29.90	34.80
20-50	11856.43	46.60	54.20
40-70	10110.1	39.80	46.30
60-80	3289.41	12.90	15.10
70-80	981.01	3.90	4.50
80-90	182.10	0.70	0.80
90-110	1.09	0.00	0.00
90-120	1.10	0.00	0.00
90-130	1.10	0.00	0.00
90-150	1.10	0.00	0.00
90-180	1.10	0.00	0.00
110-180	0.00	0.00	0.00
0-180	21855.59	86.00	100.00

Total Luminaire Efficiency = 86.00%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	758.81
10-20	2220.11
20-30	3429.16
30-40	4173.19
40-50	4254.07
50-60	3547.63
60-70	2308.4
70-80	981.01
80-90	182.10
90-100	1.07
100-110	0.03
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	82	80	82	80	78	79	77	75	74
2	86	80	74	69	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	62	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	51	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	42	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**

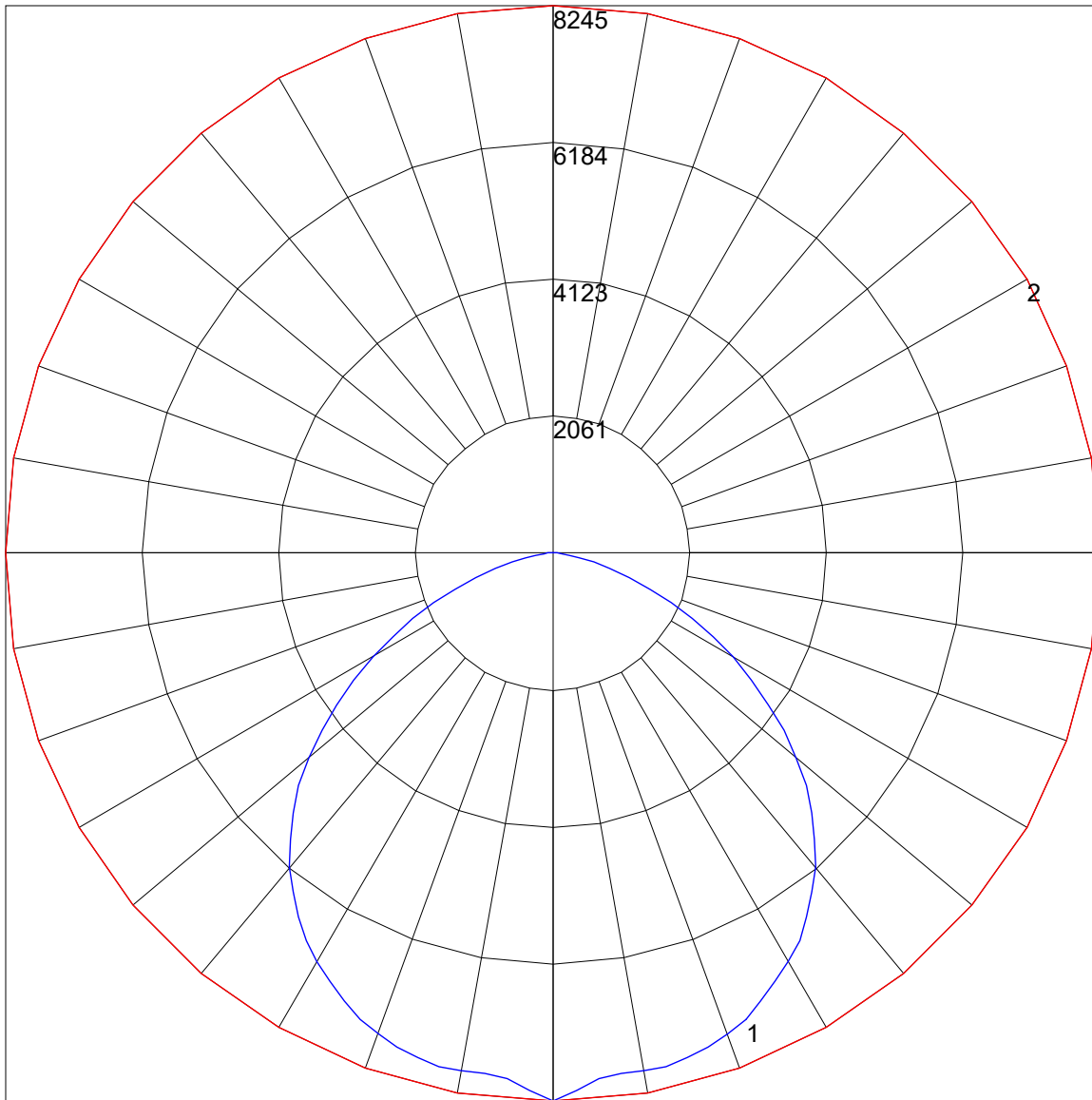
Reflectances

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	21.0	22.6	21.3	22.9	23.2	21.0	22.6	21.3	22.9	23.2
	3H	22.2	23.6	22.6	23.9	24.3	22.2	23.6	22.6	23.9	24.3
	4H	22.5	23.8	22.9	24.2	24.5	22.5	23.8	22.9	24.2	24.5
	6H	22.6	23.8	23.0	24.2	24.6	22.6	23.8	23.0	24.2	24.6
	8H	22.6	23.8	23.1	24.2	24.6	22.6	23.8	23.1	24.2	24.6
	12H	22.6	23.7	23.0	24.1	24.5	22.6	23.7	23.0	24.1	24.5
4H	2H	21.3	22.7	21.7	23.0	23.4	21.3	22.7	21.7	23.0	23.4
	3H	22.7	23.8	23.1	24.2	24.6	22.7	23.8	23.1	24.2	24.6
	4H	23.0	24.0	23.5	24.5	24.9	23.0	24.0	23.5	24.5	24.9
	6H	23.2	24.1	23.7	24.5	25.0	23.2	24.1	23.7	24.5	25.0
	8H	23.2	24.1	23.7	24.5	25.0	23.2	24.1	23.7	24.5	25.0
	12H	23.3	24.0	23.7	24.5	24.9	23.3	24.0	23.7	24.5	24.9
8H	4H	23.1	23.9	23.6	24.4	24.8	23.1	23.9	23.6	24.4	24.8
	6H	23.3	24.0	23.8	24.5	25.0	23.3	24.0	23.8	24.5	25.0
	8H	23.3	24.0	23.9	24.5	24.9	23.3	24.0	23.9	24.5	24.9
	12H	23.4	23.9	23.9	24.4	25.0	23.4	23.9	23.9	24.4	25.0
12H	4H	23.1	23.8	23.6	24.3	24.8	23.1	23.8	23.6	24.3	24.8
	6H	23.3	23.9	23.8	24.4	24.9	23.3	23.9	23.8	24.4	24.9
	8H	23.3	23.9	23.9	24.4	24.9	23.3	23.9	23.9	24.4	24.9

Maximum UGR = 25.0

POLAR GRAPH



Maximum Candela = 8245.19 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)