



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BX940LED4HTHOWT30120-277V_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 13:17:01 2021
 [TEST] 1
 [MANUFAC] BEGHELLI
 [LUMCAT]
 [LUMINAIRE] BX940LED4HTHOWT30120-277V_S
 [LAMP] LED 0.72W LUXEON 3030 2D Line (120mA)
 [LAMPCAT] L130-3580003000X21
 [OTHER]

CHARACTERISTICS

Lumens Per Lamp	62.6 (384 lamps)
Total Lamp Lumens	24038.4
Luminaire Lumens	20663
Total Luminaire Efficiency	86 %
Luminaire Efficacy Rating (LER)	129
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)	1.40
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	16590	14188	13796
55	14306	11580	11163
65	10952	8182	7795
75	6257	4066	3804
85	2127	981	887

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CANDELA TABULATION

	<u>0</u>
0.0	7722.93
2.5	7557.49
5.0	7544.57
7.5	7464.12
10.0	7515.75
12.5	7466.82
15.0	7461.34
17.5	7368.32
20.0	7285.66
22.5	7201.75
25.0	7021.93
27.5	6869.20
30.0	6716.29
32.5	6544.99
35.0	6304.39
37.5	6089.41
40.0	5799.79
42.5	5530.84
45.0	5226.23
47.5	4877.21
50.0	4526.03
52.5	4133.96
55.0	3754.30
57.5	3355.46
60.0	2965.35
62.5	2571.04
65.0	2210.70
67.5	1850.97
70.0	1491.39
72.5	1159.67
75.0	845.59
77.5	588.41
80.0	388.90
82.5	239.96
85.0	136.81
87.5	59.95
90.0	7.54
92.5	0.17
95.0	0.21
97.5	0.06
100.0	0.02
102.5	0.02
105.0	0.03
107.5	0.02
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	2818.8	11.70	13.60
0-30	6061.48	25.20	29.30
0-40	10007.45	41.60	48.40
0-60	17369.06	72.30	84.10
0-80	20489.01	85.20	99.20
0-90	20661.7	86.00	100.00
10-90	19944.32	83.00	96.50
20-40	7188.66	29.90	34.80
20-50	11201.64	46.60	54.20
40-70	9551.29	39.70	46.20
60-80	3119.95	13.00	15.10
70-80	930.27	3.90	4.50
80-90	172.69	0.70	0.80
90-110	1.18	0.00	0.00
90-120	1.18	0.00	0.00
90-130	1.18	0.00	0.00
90-150	1.18	0.00	0.00
90-180	1.18	0.00	0.00
110-180	0.00	0.00	0.00
0-180	20662.88	86.00	100.00

Total Luminaire Efficiency = 86.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	717.38
10-20	2101.42
20-30	3242.69
30-40	3945.97
40-50	4012.98
50-60	3348.62
60-70	2189.69
70-80	930.27
80-90	172.69
90-100	1.16
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	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	42	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

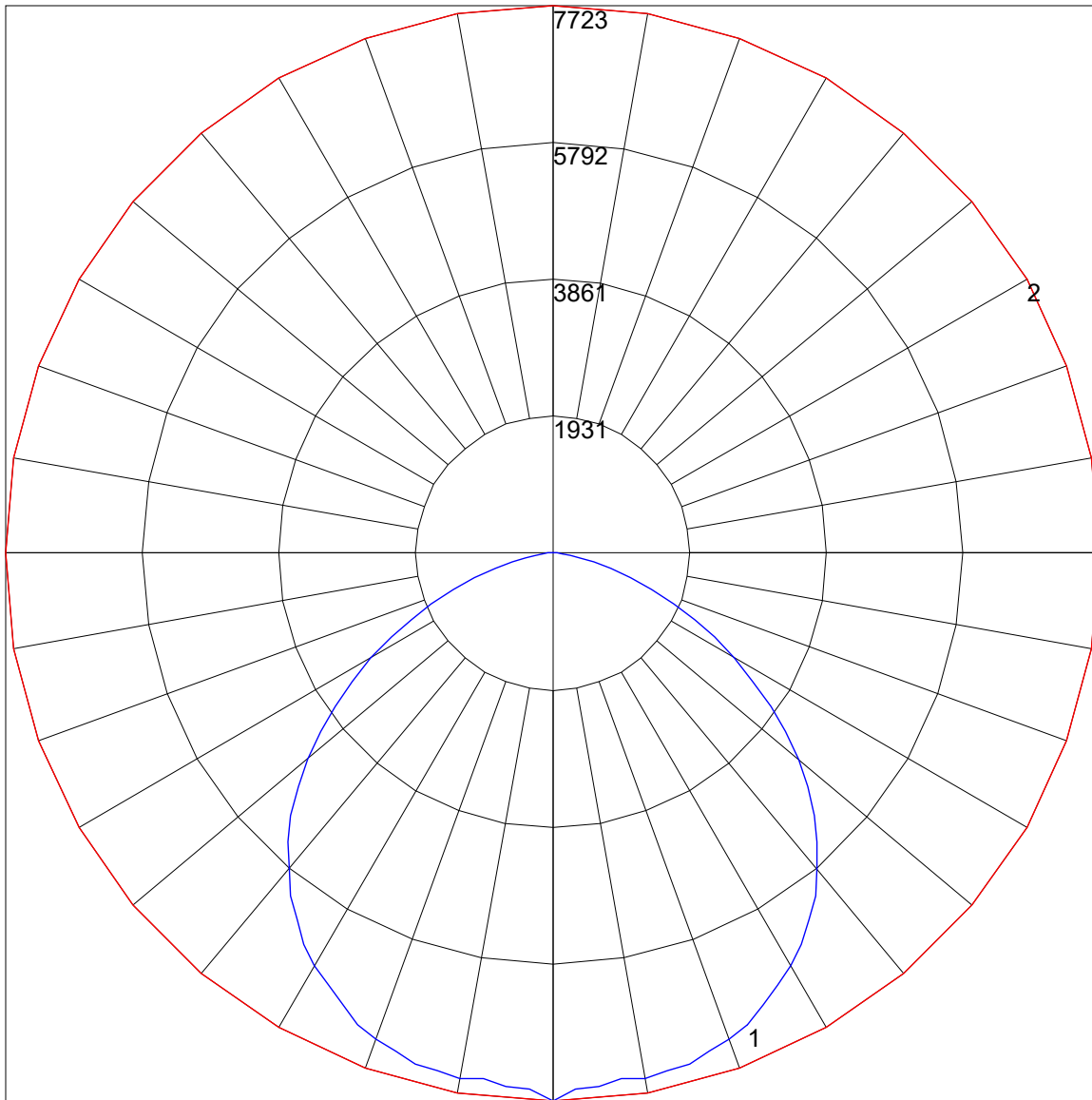
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UGR TABLE - CORRECTED

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	20.8	22.3	21.1	22.7	23.0	20.8	22.3	21.1	22.7	23.0
	3H	22.0	23.4	22.4	23.7	24.1	22.0	23.4	22.4	23.7	24.1
	4H	22.3	23.6	22.7	24.0	24.4	22.3	23.6	22.7	24.0	24.4
	6H	22.4	23.6	22.8	24.0	24.4	22.4	23.6	22.8	24.0	24.4
	8H	22.4	23.6	22.9	24.0	24.4	22.4	23.6	22.9	24.0	24.4
	12H	22.4	23.5	22.8	23.9	24.4	22.4	23.5	22.8	23.9	24.4
4H	2H	21.1	22.5	21.5	22.8	23.2	21.1	22.5	21.5	22.8	23.2
	3H	22.5	23.6	22.9	24.0	24.4	22.5	23.6	22.9	24.0	24.4
	4H	22.9	23.9	23.3	24.3	24.7	22.9	23.9	23.3	24.3	24.7
	6H	23.1	23.9	23.5	24.4	24.8	23.1	23.9	23.5	24.4	24.8
	8H	23.1	23.9	23.5	24.3	24.8	23.1	23.9	23.5	24.3	24.8
	12H	23.1	23.8	23.6	24.3	24.7	23.1	23.8	23.6	24.3	24.7
8H	4H	22.9	23.7	23.4	24.2	24.6	22.9	23.7	23.4	24.2	24.6
	6H	23.1	23.8	23.6	24.3	24.8	23.1	23.8	23.6	24.3	24.8
	8H	23.2	23.8	23.7	24.3	24.8	23.2	23.8	23.7	24.3	24.8
	12H	23.2	23.7	23.7	24.2	24.8	23.2	23.7	23.7	24.2	24.8
12H	4H	22.9	23.6	23.4	24.1	24.6	22.9	23.6	23.4	24.1	24.6
	6H	23.1	23.7	23.6	24.2	24.7	23.1	23.7	23.6	24.2	24.7
	8H	23.2	23.7	23.7	24.2	24.7	23.2	23.7	23.7	24.2	24.7

Maximum UGR = 24.8

POLAR GRAPH



Maximum Candela = 7722.93 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)