



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BX940LED4SAWT40120-277V_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 12:25:59 2021

[TEST] 1

[MANUFAC] BEGHELLI

[LUMCAT]

[LUMINAIRE] BX940LED4SAWT40120-277V_S

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

[LAMPCAT] L130-3580003000X21

[OTHER]

CHARACTERISTICS

Lumens Per Lamp	41.4 (384 lamps)
Total Lamp Lumens	15897.6
Luminaire Lumens	1367
Total Luminaire Efficiency	9 %
Luminaire Efficacy Rating (LER)	137
Total Luminaire Watts	10
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	1.32
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	1101	942	915
55	948	768	740
65	723	540	515
75	413	268	251
85	138	64	57

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CANDELA TABULATION

	0
0.0	504.690
2.5	504.415
5.0	499.440
7.5	493.964
10.0	492.352
12.5	492.147
15.0	495.115
17.5	488.571
20.0	482.074
22.5	473.651
25.0	465.354
27.5	457.100
30.0	445.794
32.5	431.473
35.0	418.249
37.5	401.567
40.0	385.027
42.5	365.577
45.0	346.805
47.5	322.236
50.0	298.978
52.5	273.714
55.0	248.892
57.5	222.536
60.0	195.809
62.5	169.698
65.0	145.938
67.5	121.675
70.0	98.473
72.5	76.119
75.0	55.773
77.5	38.827
80.0	25.884
82.5	15.916
85.0	8.858
87.5	4.029
90.0	0.459
92.5	0.009
95.0	0.007
97.5	0.006
100.0	0.002
102.5	0.004
105.0	0.002
107.5	0.000
110.0	0.000
112.5	0.000
115.0	0.000
117.5	0.000
120.0	0.000
122.5	0.000
125.0	0.000
127.5	0.000
130.0	0.000
132.5	0.000

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CANDELA TABULATION - (Cont.)

135.0	0.000
137.5	0.000
140.0	0.000
142.5	0.000
145.0	0.000
147.5	0.000
150.0	0.000
152.5	0.000
155.0	0.000
157.5	0.000
160.0	0.000
162.5	0.000
165.0	0.000
167.5	0.000
170.0	0.000
172.5	0.000
175.0	0.000
177.5	0.000
180.0	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	186.39	1.20	13.60
0-30	401.15	2.50	29.40
0-40	662.17	4.20	48.40
0-60	1149.52	7.20	84.10
0-80	1355.26	8.50	99.20
0-90	1366.67	8.60	100.00
10-90	1319.27	8.30	96.50
20-40	475.78	3.00	34.80
20-50	741.40	4.70	54.20
40-70	631.78	4.00	46.20
60-80	205.73	1.30	15.10
70-80	61.31	0.40	4.50
80-90	11.42	0.10	0.80
90-110	0.07	0.00	0.00
90-120	0.07	0.00	0.00
90-130	0.07	0.00	0.00
90-150	0.07	0.00	0.00
90-180	0.07	0.00	0.00
110-180	0.00	0.00	0.00
0-180	1366.74	8.60	100.00

Total Luminaire Efficiency = 8.60%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	47.41
10-20	138.98
20-30	214.76
30-40	261.02
40-50	265.62
50-60	221.73
60-70	144.42
70-80	61.31
80-90	11.42
90-100	0.07
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	10	10	10	10	10	10	10	10	10	10	10	9	9	9	9	9	9	9
1	9	9	9	8	9	9	9	8	9	8	8	8	8	8	8	8	8	7
2	9	8	7	7	8	8	7	7	7	7	7	7	7	7	7	7	6	6
3	8	7	6	6	8	7	6	6	7	6	6	6	6	6	6	6	5	5
4	7	6	6	5	7	6	5	5	6	5	5	6	5	5	6	5	5	5
5	7	6	5	4	6	5	5	4	5	5	4	5	5	4	5	5	4	4
6	6	5	4	4	6	5	4	4	5	4	4	5	4	4	5	4	4	3
7	6	5	4	3	6	5	4	3	4	4	3	4	4	3	4	4	3	3
8	5	4	3	3	5	4	3	3	4	3	3	4	3	3	4	3	3	3
9	5	4	3	3	5	4	3	3	4	3	3	4	3	3	4	3	3	2
10	5	4	3	2	5	3	3	2	3	3	2	3	3	2	3	3	2	2

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UGR TABLE - CORRECTED

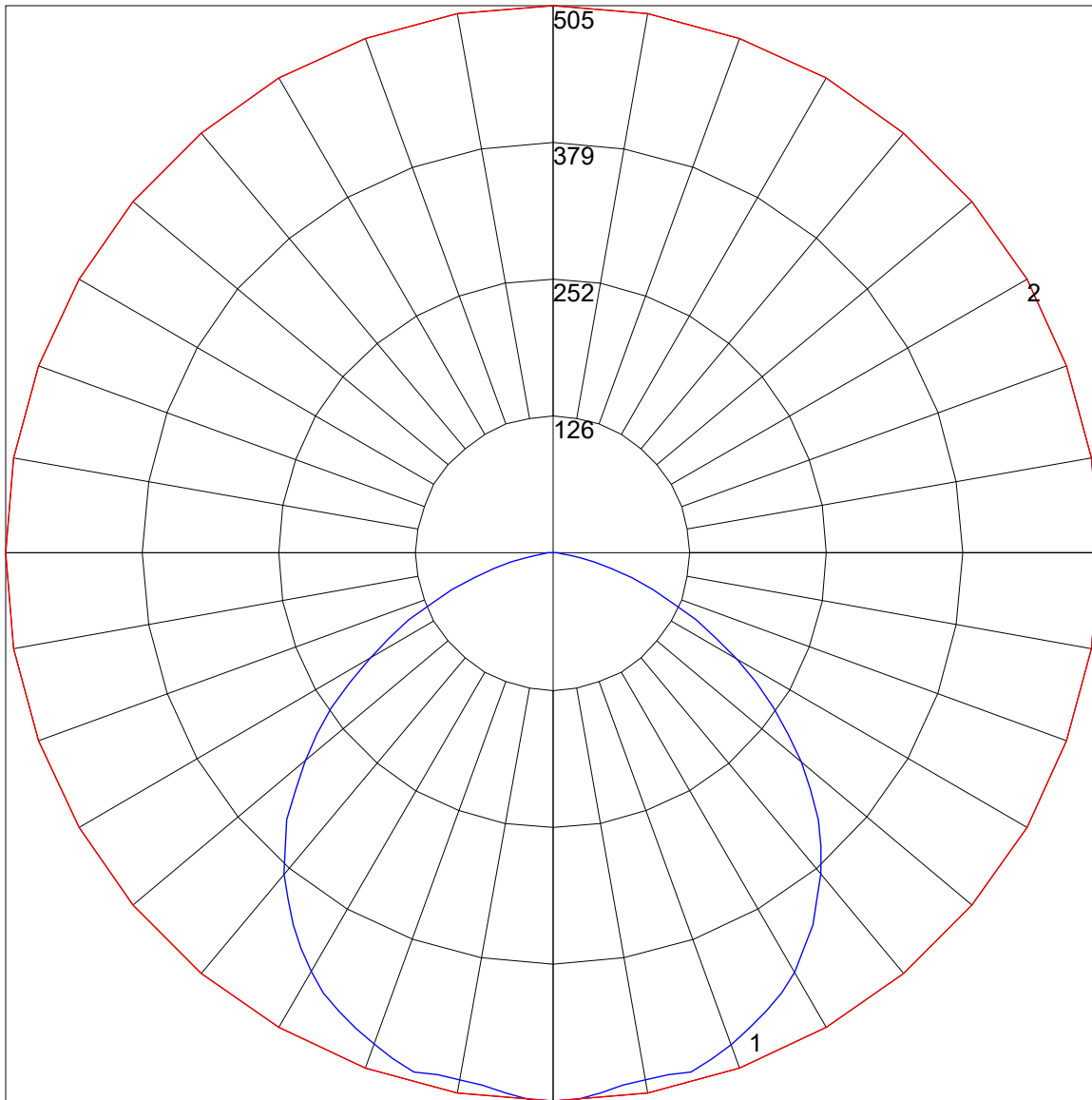
Reflectances

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	11.1	12.8	11.4	13.1	13.4	11.1	12.8	11.4	13.1	13.4
	3H	12.4	13.8	12.8	14.2	14.5	12.4	13.8	12.8	14.2	14.5
	4H	12.6	14.0	13.0	14.4	14.8	12.6	14.0	13.0	14.4	14.8
	6H	12.7	14.1	13.1	14.4	14.8	12.7	14.1	13.1	14.4	14.8
	8H	12.9	14.0	13.3	14.4	14.8	12.9	14.0	13.3	14.4	14.8
	12H	12.9	14.0	13.3	14.4	14.8	12.9	14.0	13.3	14.4	14.8
4H	2H	11.5	12.9	11.9	13.3	13.6	11.5	12.9	11.9	13.3	13.6
	3H	12.9	14.0	13.3	14.4	14.8	12.9	14.0	13.3	14.4	14.8
	4H	13.2	14.3	13.6	14.7	15.1	13.2	14.3	13.6	14.7	15.1
	6H	13.3	14.3	13.7	14.8	15.2	13.3	14.3	13.7	14.8	15.2
	8H	13.5	14.3	14.0	14.8	15.2	13.5	14.3	14.0	14.8	15.2
	12H	13.5	14.2	14.0	14.7	15.2	13.5	14.2	14.0	14.7	15.2
8H	4H	13.4	14.2	13.8	14.6	15.1	13.4	14.2	13.8	14.6	15.1
	6H	13.5	14.2	14.0	14.7	15.2	13.5	14.2	14.0	14.7	15.2
	8H	13.4	14.2	13.9	14.7	15.2	13.4	14.2	13.9	14.7	15.2
	12H	13.4	14.1	13.9	14.6	15.1	13.4	14.1	13.9	14.6	15.1
12H	4H	13.3	14.1	13.8	14.5	15.0	13.3	14.1	13.8	14.5	15.0
	6H	13.4	14.1	13.9	14.6	15.1	13.4	14.1	13.9	14.6	15.1
	8H	13.4	14.1	13.9	14.6	15.1	13.4	14.1	13.9	14.6	15.1

Maximum UGR = 15.2

POLAR GRAPH



Maximum Candela = 504.69 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)