



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BX940LED4HTLOWT50120-277V\_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 12:25:59 2021

[TEST] 1

[MANUFAC] BEGHELLI

[LUMCAT]

[LUMINAIRE] BX940LED4HTLOWT50120-277V\_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	13667
Total Luminaire Efficiency	86 %
Luminaire Efficacy Rating (LER)	137
Total Luminaire Watts	100
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	11009	9415	9155
55	9484	7677	7400
65	7230	5401	5146
75	4127	2682	2509
85	1377	635	574

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CANDELA TABULATION

	<b>0</b>
<b>0.0</b>	5046.90
<b>2.5</b>	5044.15
<b>5.0</b>	4994.40
<b>7.5</b>	4939.64
<b>10.0</b>	4923.52
<b>12.5</b>	4921.47
<b>15.0</b>	4951.15
<b>17.5</b>	4885.71
<b>20.0</b>	4820.74
<b>22.5</b>	4736.51
<b>25.0</b>	4653.54
<b>27.5</b>	4571.00
<b>30.0</b>	4457.94
<b>32.5</b>	4314.73
<b>35.0</b>	4182.49
<b>37.5</b>	4015.67
<b>40.0</b>	3850.27
<b>42.5</b>	3655.77
<b>45.0</b>	3468.05
<b>47.5</b>	3222.36
<b>50.0</b>	2989.78
<b>52.5</b>	2737.14
<b>55.0</b>	2488.92
<b>57.5</b>	2225.36
<b>60.0</b>	1958.09
<b>62.5</b>	1696.98
<b>65.0</b>	1459.38
<b>67.5</b>	1216.75
<b>70.0</b>	984.73
<b>72.5</b>	761.19
<b>75.0</b>	557.73
<b>77.5</b>	388.27
<b>80.0</b>	258.84
<b>82.5</b>	159.16
<b>85.0</b>	88.58
<b>87.5</b>	40.29
<b>90.0</b>	4.59
<b>92.5</b>	0.09
<b>95.0</b>	0.07
<b>97.5</b>	0.06
<b>100.0</b>	0.02
<b>102.5</b>	0.04
<b>105.0</b>	0.02
<b>107.5</b>	0.00
<b>110.0</b>	0.00
<b>112.5</b>	0.00
<b>115.0</b>	0.00
<b>117.5</b>	0.00
<b>120.0</b>	0.00
<b>122.5</b>	0.00
<b>125.0</b>	0.00
<b>127.5</b>	0.00
<b>130.0</b>	0.00
<b>132.5</b>	0.00

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	0.00
<b>137.5</b>	0.00
<b>140.0</b>	0.00
<b>142.5</b>	0.00
<b>145.0</b>	0.00
<b>147.5</b>	0.00
<b>150.0</b>	0.00
<b>152.5</b>	0.00
<b>155.0</b>	0.00
<b>157.5</b>	0.00
<b>160.0</b>	0.00
<b>162.5</b>	0.00
<b>165.0</b>	0.00
<b>167.5</b>	0.00
<b>170.0</b>	0.00
<b>172.5</b>	0.00
<b>175.0</b>	0.00
<b>177.5</b>	0.00
<b>180.0</b>	0.00

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1863.91	11.70	13.60
0-30	4011.53	25.20	29.40
0-40	6621.69	41.70	48.40
0-60	11495.23	72.30	84.10
0-80	13552.56	85.20	99.20
0-90	13666.72	86.00	100.00
10-90	13192.66	83.00	96.50
20-40	4757.79	29.90	34.80
20-50	7413.97	46.60	54.20
40-70	6317.76	39.70	46.20
60-80	2057.33	12.90	15.10
70-80	613.11	3.90	4.50
80-90	114.16	0.70	0.80
90-110	0.71	0.00	0.00
90-120	0.71	0.00	0.00
90-130	0.71	0.00	0.00
90-150	0.71	0.00	0.00
90-180	0.71	0.00	0.00
110-180	0.00	0.00	0.00
0-180	13667.43	86.00	100.00

Total Luminaire Efficiency = 86.00%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	474.06
10-20	1389.85
20-30	2147.63
30-40	2610.16
40-50	2656.18
50-60	2217.35
60-70	1444.23
70-80	613.11
80-90	114.16
90-100	0.69
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	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

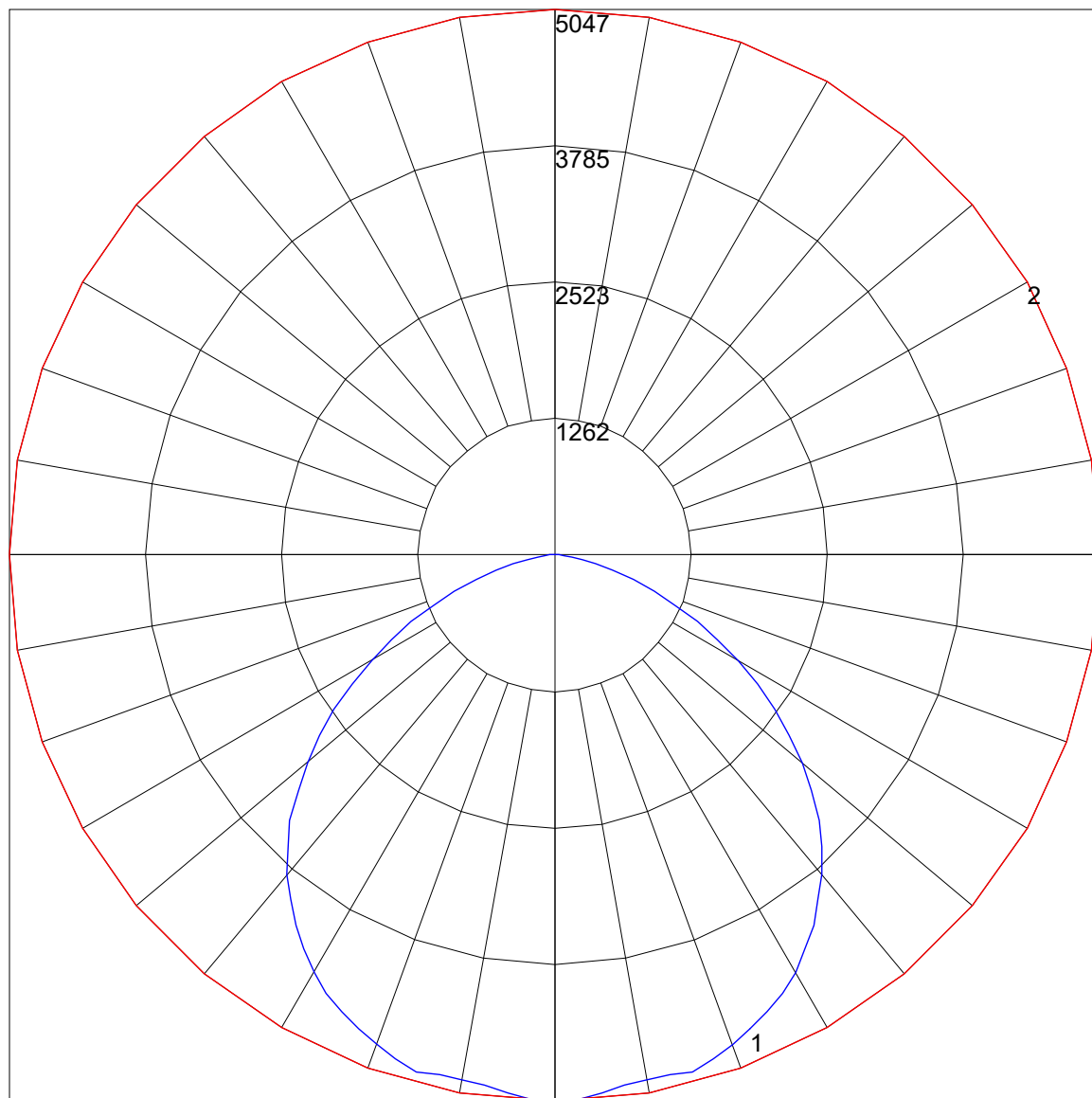
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**UGR TABLE - CORRECTED**

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	19.4	21.0	19.7	21.3	21.6	19.4	21.0	19.7	21.3	21.6
	3H	20.6	22.0	21.0	22.3	22.7	20.6	22.0	21.0	22.3	22.7
	4H	20.9	22.2	21.3	22.6	22.9	20.9	22.2	21.3	22.6	22.9
	6H	21.0	22.2	21.4	22.6	23.0	21.0	22.2	21.4	22.6	23.0
	8H	21.0	22.2	21.5	22.6	23.0	21.0	22.2	21.5	22.6	23.0
	12H	21.0	22.1	21.4	22.5	23.0	21.0	22.1	21.4	22.5	23.0
4H	2H	19.8	21.1	20.2	21.4	21.8	19.8	21.1	20.2	21.4	21.8
	3H	21.1	22.2	21.5	22.6	23.0	21.1	22.2	21.5	22.6	23.0
	4H	21.5	22.5	21.9	22.9	23.3	21.5	22.5	21.9	22.9	23.3
	6H	21.7	22.5	22.1	23.0	23.4	21.7	22.5	22.1	23.0	23.4
	8H	21.7	22.5	22.1	22.9	23.4	21.7	22.5	22.1	22.9	23.4
	12H	21.7	22.4	22.1	22.9	23.3	21.7	22.4	22.1	22.9	23.3
8H	4H	21.5	22.3	22.0	22.8	23.2	21.5	22.3	22.0	22.8	23.2
	6H	21.7	22.4	22.2	22.9	23.4	21.7	22.4	22.2	22.9	23.4
	8H	21.8	22.4	22.3	22.9	23.4	21.8	22.4	22.3	22.9	23.4
	12H	21.8	22.3	22.3	22.8	23.4	21.8	22.3	22.3	22.8	23.4
12H	4H	21.5	22.2	22.0	22.7	23.2	21.5	22.2	22.0	22.7	23.2
	6H	21.7	22.3	22.2	22.8	23.3	21.7	22.3	22.2	22.8	23.3
	8H	21.8	22.3	22.3	22.8	23.3	21.8	22.3	22.3	22.8	23.3

Maximum UGR = 23.4

POLAR GRAPH



Maximum Candela = 5046.9 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)