



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BX920LED4HTHOWT40120V-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 11:24:50 2021

[TEST] 1

[MANUFAC] BEGHELLI

[LUMCAT]

[LUMINAIRE] BX920LED4HTHOWT40120V-277V\_S

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

[LAMPCAT] L130-3580003000X21

[OTHER]

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	11704
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	146
Total Luminaire Watts	80
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.31 ft
Luminous Width (90-270)	0.55 ft
Luminous Height	0.29 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	17238	12989	12091
55	15633	10745	9820
65	12960	7834	6999
75	8447	4138	3586
85	2151	661	546

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CANDELA TABULATION

	<u>0</u>
0.0	4069.59
2.5	4115.83
5.0	4081.72
7.5	4049.15
10.0	4012.99
12.5	4016.99
15.0	3999.28
17.5	3964.07
20.0	3909.67
22.5	3849.88
25.0	3768.92
27.5	3696.90
30.0	3611.72
32.5	3522.37
35.0	3416.13
37.5	3280.80
40.0	3159.96
42.5	3039.09
45.0	2888.83
47.5	2728.01
50.0	2562.51
52.5	2373.17
55.0	2182.41
57.5	1983.48
60.0	1789.88
62.5	1587.86
65.0	1391.58
67.5	1198.27
70.0	996.44
72.5	801.62
75.0	607.25
77.5	435.85
80.0	292.19
82.5	168.91
85.0	73.61
87.5	22.78
90.0	0.63
92.5	0.00
95.0	0.01
97.5	0.00
100.0	0.00
102.5	0.00
105.0	0.00
107.5	0.00
110.0	0.00
112.5	0.00
115.0	0.00
117.5	0.00
120.0	0.00
122.5	0.01
125.0	0.00
127.5	0.00
130.0	0.01
132.5	0.01

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	0.02
<b>137.5</b>	0.01
<b>140.0</b>	0.01
<b>142.5</b>	0.00
<b>145.0</b>	0.01
<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	1515.63	N.A.	13.00
0-30	3256.13	N.A.	27.80
0-40	5387.14	N.A.	46.00
0-60	9558.68	N.A.	81.70
0-80	11591.66	N.A.	99.00
0-90	11703.56	N.A.	100.00
10-90	11316.17	N.A.	96.70
20-40	3871.51	N.A.	33.10
20-50	6094.95	N.A.	52.10
40-70	5549.01	N.A.	47.40
60-80	2032.98	N.A.	17.40
70-80	655.52	N.A.	5.60
80-90	111.90	N.A.	1.00
90-110	0.09	N.A.	0.00
90-120	0.09	N.A.	0.00
90-130	0.09	N.A.	0.00
90-150	0.10	N.A.	0.00
90-180	0.10	N.A.	0.00
110-180	0.02	N.A.	0.00
0-180	11703.67	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	387.40
10-20	1128.23
20-30	1740.51
30-40	2131.00
40-50	2223.44
50-60	1948.1
60-70	1377.46
70-80	655.52
80-90	111.90
90-100	0.09
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.01
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	46	44
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25

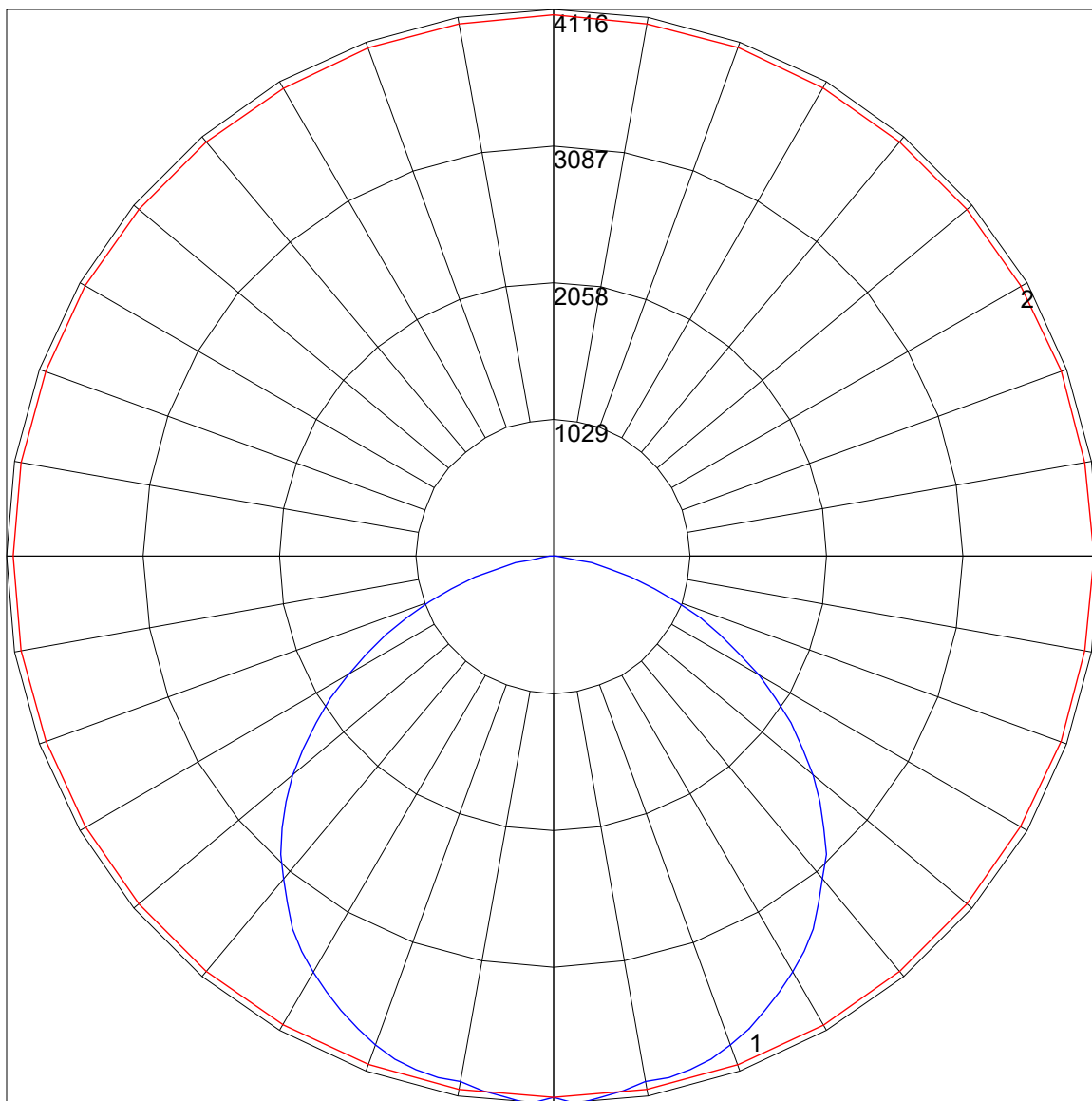
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**UGR TABLE - CORRECTED**

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	20.9	22.5	21.3	22.9	23.2	20.9	22.5	21.3	22.9	23.2
	3H	22.4	23.9	22.8	24.2	24.5	22.4	23.9	22.8	24.2	24.5
	4H	22.8	24.2	23.2	24.5	24.9	22.8	24.2	23.2	24.5	24.9
	6H	23.0	24.3	23.4	24.7	25.0	23.0	24.3	23.4	24.7	25.0
	8H	23.0	24.3	23.5	24.6	25.0	23.0	24.3	23.5	24.6	25.0
	12H	23.1	24.2	23.5	24.6	25.0	23.1	24.2	23.5	24.6	25.0
4H	2H	21.3	22.7	21.7	23.0	23.4	21.3	22.7	21.7	23.0	23.4
	3H	22.9	24.1	23.3	24.5	24.9	22.9	24.1	23.3	24.5	24.9
	4H	23.4	24.4	23.8	24.8	25.3	23.4	24.4	23.8	24.8	25.3
	6H	23.7	24.6	24.1	25.0	25.5	23.7	24.6	24.1	25.0	25.5
	8H	23.7	24.6	24.2	25.0	25.5	23.7	24.6	24.2	25.0	25.5
	12H	23.7	24.5	24.2	24.9	25.4	23.7	24.5	24.2	24.9	25.4
8H	4H	23.5	24.3	23.9	24.8	25.2	23.5	24.3	23.9	24.8	25.2
	6H	23.8	24.5	24.3	25.0	25.4	23.8	24.5	24.3	25.0	25.4
	8H	23.8	24.5	24.3	25.0	25.4	23.8	24.5	24.3	25.0	25.4
	12H	23.9	24.4	24.4	24.9	25.5	23.9	24.4	24.4	24.9	25.5
12H	4H	23.5	24.2	24.0	24.7	25.2	23.5	24.2	24.0	24.7	25.2
	6H	23.8	24.4	24.3	24.9	25.4	23.8	24.4	24.3	24.9	25.4
	8H	23.8	24.4	24.4	24.9	25.4	23.8	24.4	24.4	24.9	25.4

Maximum UGR = 25.5

POLAR GRAPH



Maximum Candela = 4115.83 Located At Horizontal Angle = 0, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0)