

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LEDA4HT120V-277V\_P.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] 4098  
[TESTLAB] TUV SUD America  
[ISSUE DATE] 4/12/2021 3:18:05 PM  
[MANUFAC] BEGHELLI  
[LUMCAT] LINEAR - INDOOR / OUTDOOR LUMINAIRE  
[LUMINAIRE] BS100LEDA4HT120-277V\_P  
[ AMBIENT] 24.8 deg C  
[ POWERFACTOR] 0.9978  
[ ATHD] 5.74%  
[ CURRENT] 0.58  
[ VOLTAGE] 119.99  
[ STABILIZATION] 144:43.5 Stable  
[ POWER VARIATION] 0.00 %  
[ LIGHT VARIATION] 0.48 %  
[ Lumens] 844.3  
[ END VOLTS] 119.99  
[ END CURRENT] 0.58  
[ END POWER] 69.13

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	671
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	12
Total Luminaire Watts	55
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.00
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.16
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.58 ft
Luminous Width (90-270)	4.16 ft
Luminous Height	0.33 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	457	523	1194
55	329	401	1005
65	95	258	784
75	1	43	496
85	0	0	78

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0.0	346.148	346.148	346.148	346.148	346.148	346.148	346.148	346.148	346.148	346.148
2.5	346.156	346.085	345.259	345.934	346.378	346.212	344.234	344.965	345.362	344.965
5.0	346.108	345.418	344.012	345.576	345.338	344.862	342.178	343.631	344.369	343.631
7.5	344.727	343.416	342.479	343.814	342.948	342.876	340.129	341.781	342.813	341.781
10.0	341.257	341.137	340.018	340.772	339.795	339.780	337.739	338.803	340.399	338.803
12.5	337.016	337.040	335.841	337.175	336.198	336.214	334.213	334.983	336.500	334.983
15.0	332.220	331.973	331.362	332.950	331.934	331.703	329.361	330.393	331.569	330.393
17.5	326.431	326.320	326.542	327.828	326.335	326.137	323.882	324.525	325.684	324.525
20.0	318.879	319.752	320.562	321.722	319.220	319.554	317.068	317.815	319.204	317.815
22.5	305.554	311.406	313.320	314.884	311.748	312.486	309.596	310.255	311.224	310.255
25.0	273.226	296.255	305.681	307.023	303.696	304.672	301.528	299.947	298.462	299.947
27.5	220.934	262.577	296.557	297.740	295.127	295.985	292.539	283.041	275.235	283.041
30.0	177.926	212.160	284.447	287.980	285.757	286.186	281.763	255.192	238.643	255.192
32.5	156.477	171.907	265.261	277.363	274.798	275.219	266.905	216.575	194.729	216.575
35.0	145.336	151.133	232.910	265.436	262.045	263.268	245.417	176.076	159.598	176.076
37.5	137.030	140.008	191.616	252.556	248.323	250.435	216.257	147.917	141.262	147.917
40.0	129.597	131.614	157.272	238.897	234.577	236.920	181.833	133.131	131.384	133.131
42.5	122.196	124.015	135.720	224.262	220.474	222.737	150.045	123.665	123.467	123.665
45.0	114.589	116.367	121.807	208.332	205.688	207.594	126.675	115.526	115.843	115.526
47.5	106.624	108.601	112.143	189.774	190.322	191.180	111.992	107.743	108.331	107.743
50.0	98.095	100.557	103.217	167.642	175.377	172.685	101.327	99.795	100.358	99.795
52.5	88.495	92.100	94.649	142.136	160.281	151.856	92.219	91.369	91.798	91.369
55.0	77.298	82.539	85.961	116.193	144.923	129.089	83.428	82.412	82.221	82.412
57.5	64.076	71.604	77.179	93.958	130.105	106.171	74.685	72.620	71.183	72.620
60.0	49.290	59.256	68.134	77.480	115.573	85.572	65.823	61.455	58.533	61.455
62.5	34.027	45.526	58.644	64.926	101.415	69.118	56.667	49.345	44.859	49.345
65.0	20.099	31.105	48.821	54.396	87.526	56.278	47.225	36.608	31.089	36.608
67.5	9.569	17.907	38.577	45.129	74.074	45.796	37.497	24.085	18.614	24.085
70.0	3.327	7.806	27.722	36.362	61.281	36.648	27.595	13.015	8.965	13.015
72.5	0.858	2.200	16.819	28.040	49.075	28.143	17.653	4.884	2.994	4.884
75.0	0.167	0.421	6.901	20.178	37.617	20.202	8.187	1.032	0.619	1.032
77.5	0.016	0.032	1.128	12.761	26.864	12.936	1.747	0.270	0.135	0.270
80.0	0.000	0.000	0.056	6.099	17.105	6.639	0.127	0.000	0.000	0.000
82.5	0.000	0.000	0.000	1.294	8.926	1.699	0.000	0.000	0.000	0.000
85.0	0.000	0.000	0.000	0.040	2.954	0.040	0.000	0.000	0.000	0.000
87.5	0.000	0.000	0.000	0.000	0.310	0.000	0.000	0.000	0.000	0.000
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Angles Horizontal Angles

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	346.148	346.148	346.148	346.148	346.148	346.148	346.148
2.5	344.234	346.212	346.378	345.934	345.259	346.085	346.156
5.0	342.178	344.862	345.338	345.576	344.012	345.418	346.108
7.5	340.129	342.876	342.948	343.814	342.479	343.416	344.727
10.0	337.739	339.780	339.795	340.772	340.018	341.137	341.257
12.5	334.213	336.214	336.198	337.175	335.841	337.040	337.016
15.0	329.361	331.703	331.934	332.950	331.362	331.973	332.220
17.5	323.882	326.137	326.335	327.828	326.542	326.320	326.431
20.0	317.068	319.554	319.220	321.722	320.562	319.752	318.879
22.5	309.596	312.486	311.748	314.884	313.320	311.406	305.554
25.0	301.528	304.672	303.696	307.023	305.681	296.255	273.226
27.5	292.539	295.985	295.127	297.740	296.557	262.577	220.934
30.0	281.763	286.186	285.757	287.980	284.447	212.160	177.926

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**CANDELA TABULATION - (Cont.)**

<b>32.5</b>	266.905	275.219	274.798	277.363	265.261	171.907	156.477
<b>35.0</b>	245.417	263.268	262.045	265.436	232.910	151.133	145.336
<b>37.5</b>	216.257	250.435	248.323	252.556	191.616	140.008	137.030
<b>40.0</b>	181.833	236.920	234.577	238.897	157.272	131.614	129.597
<b>42.5</b>	150.045	222.737	220.474	224.262	135.720	124.015	122.196
<b>45.0</b>	126.675	207.594	205.688	208.332	121.807	116.367	114.589
<b>47.5</b>	111.992	191.180	190.322	189.774	112.143	108.601	106.624
<b>50.0</b>	101.327	172.685	175.377	167.642	103.217	100.557	98.095
<b>52.5</b>	92.219	151.856	160.281	142.136	94.649	92.100	88.495
<b>55.0</b>	83.428	129.089	144.923	116.193	85.961	82.539	77.298
<b>57.5</b>	74.685	106.171	130.105	93.958	77.179	71.604	64.076
<b>60.0</b>	65.823	85.572	115.573	77.480	68.134	59.256	49.290
<b>62.5</b>	56.667	69.118	101.415	64.926	58.644	45.526	34.027
<b>65.0</b>	47.225	56.278	87.526	54.396	48.821	31.105	20.099
<b>67.5</b>	37.497	45.796	74.074	45.129	38.577	17.907	9.569
<b>70.0</b>	27.595	36.648	61.281	36.362	27.722	7.806	3.327
<b>72.5</b>	17.653	28.143	49.075	28.040	16.819	2.200	0.858
<b>75.0</b>	8.187	20.202	37.617	20.178	6.901	0.421	0.167
<b>77.5</b>	1.747	12.936	26.864	12.761	1.128	0.032	0.016
<b>80.0</b>	0.127	6.639	17.105	6.099	0.056	0.000	0.000
<b>82.5</b>	0.000	1.699	8.926	1.294	0.000	0.000	0.000
<b>85.0</b>	0.000	0.040	2.954	0.040	0.000	0.000	0.000
<b>87.5</b>	0.000	0.000	0.310	0.000	0.000	0.000	0.000
<b>90.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	126.21	N.A.	18.80
0-30	262.81	N.A.	39.20
0-40	399.84	N.A.	59.60
0-60	607.41	N.A.	90.60
0-80	669.75	N.A.	99.80
0-90	670.78	N.A.	100.00
10-90	638.04	N.A.	95.10
20-40	273.63	N.A.	40.80
20-50	391.49	N.A.	58.40
40-70	256.02	N.A.	38.20
60-80	62.34	N.A.	9.30
70-80	13.89	N.A.	2.10
80-90	1.03	N.A.	0.20
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	670.78	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	32.74
10-20	93.47
20-30	136.61
30-40	137.03
40-50	117.85
50-60	89.71
60-70	48.46
70-80	13.89
80-90	1.03
90-100	0.00
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	88
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77
3	95	86	79	74	93	84	78	73	82	76	72	79	74	71	77	73	69	67
4	88	77	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59
5	82	70	62	56	80	69	62	56	67	61	56	65	60	55	64	59	54	53
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	42
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32

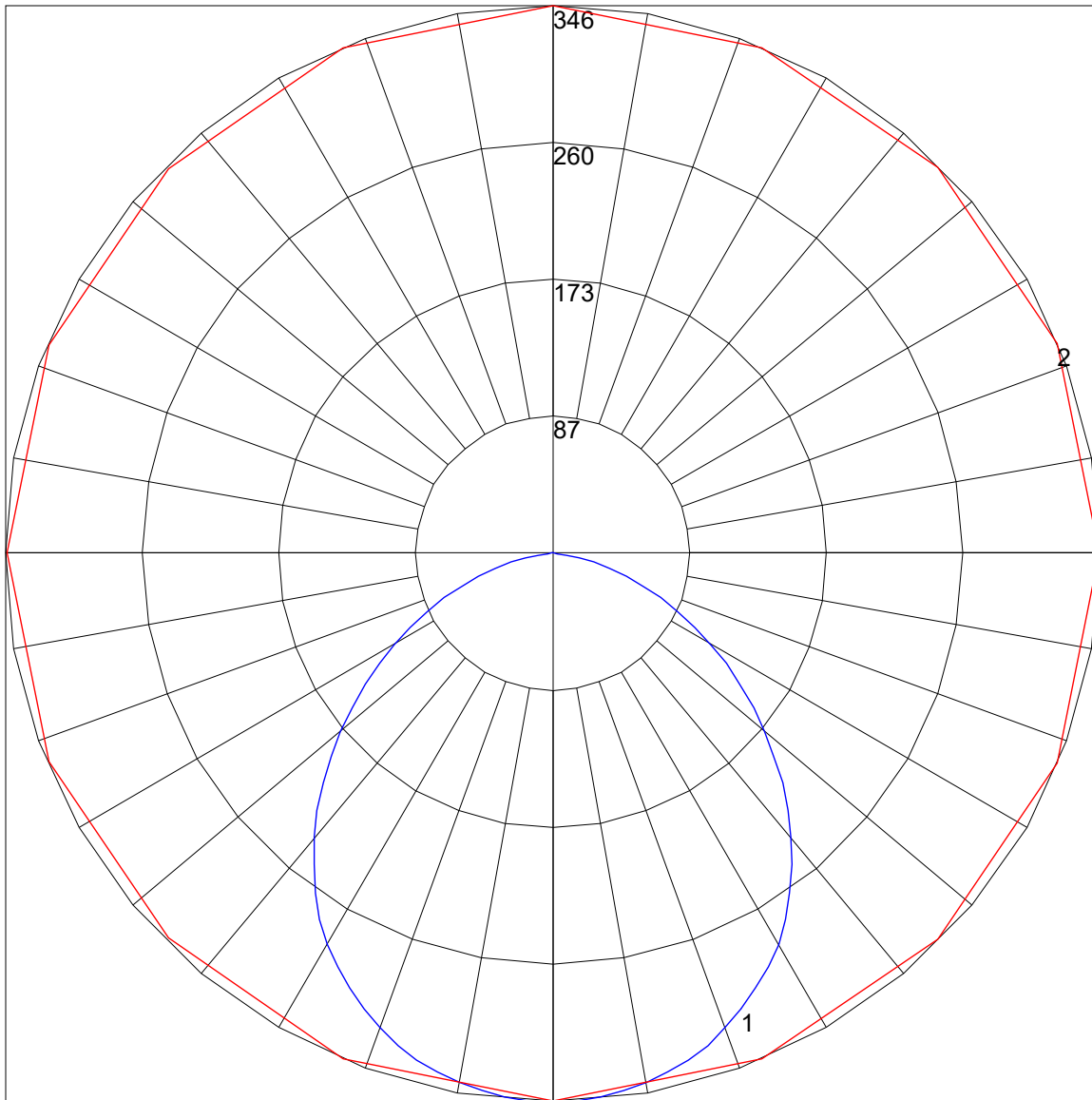
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**UGR TABLE - CORRECTED**

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	7.7	9.1	8.0	9.4	9.8	9.5	10.9	9.8	11.2	11.6
	3H	7.7	9.0	8.1	9.3	9.7	10.6	11.8	10.9	12.2	12.5
	4H	7.6	8.8	8.0	9.2	9.5	10.8	12.0	11.2	12.4	12.8
	6H	7.5	8.6	8.0	9.0	9.4	10.9	12.0	11.4	12.4	12.8
	8H	7.5	8.6	7.9	8.9	9.3	10.9	12.0	11.4	12.4	12.8
	12H	7.5	8.5	7.9	8.9	9.3	10.9	11.9	11.3	12.3	12.7
4H	2H	8.0	9.2	8.4	9.6	10.0	9.6	10.8	10.0	11.2	11.5
	3H	8.1	9.1	8.5	9.5	9.9	10.8	11.7	11.2	12.1	12.5
	4H	8.0	8.9	8.4	9.3	9.7	11.1	11.9	11.5	12.3	12.8
	6H	7.9	8.7	8.4	9.1	9.6	11.2	11.9	11.6	12.4	12.8
	8H	7.9	8.6	8.4	9.0	9.5	11.2	11.9	11.6	12.3	12.8
	12H	7.9	8.5	8.3	9.0	9.4	11.1	11.8	11.6	12.2	12.7
8H	4H	8.0	8.7	8.5	9.1	9.6	11.0	11.7	11.4	12.1	12.6
	6H	7.9	8.5	8.4	9.0	9.4	11.1	11.7	11.6	12.1	12.6
	8H	7.9	8.4	8.4	8.9	9.4	11.1	11.6	11.6	12.1	12.6
	12H	7.8	8.3	8.3	8.8	9.3	11.0	11.5	11.6	12.0	12.5
12H	4H	8.0	8.6	8.4	9.1	9.5	10.9	11.5	11.4	12.0	12.5
	6H	7.9	8.4	8.4	8.8	9.4	11.0	11.5	11.6	12.0	12.6
	8H	7.8	8.3	8.3	8.8	9.3	11.0	11.5	11.5	12.0	12.5

Maximum UGR = 12.8

POLAR GRAPH



Maximum Candela = 346.378 Located At Horizontal Angle = 90, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)