



IES INDOOR REPORT

PHOTOMETRIC FILENAME : SBL20_MR16_1W_60DEG_3_14_19.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 00001
 [TESTLAB] LED SPECIALISTS, INC.
 [ISSUE DATE] 03-14-2019
 [MANUFAC] SOURCE LIGHTING CO. BY: CAST
 [LUMINAIRE] SLC Fixture p/n: SBL20
 [LAMP] MR16 p/n: SLMR161XW27 (RED), 1W LED, Beam 60°
 [LAMP] Time aged: 50 Hrs, Warm up time before test: 50 Hrs.
 [OTHER] POWER INPUT: Vin=12.0VAC, Iin=0.139A, Pin=1.056W, Pf=0.630
 [OTHER] LIGHT OUPUT: CCT=2739K, CRI=84, Beam Angle 55°



CHARACTERISTICS

Lumens Per Lamp	80 (3 lamps)
Total Lamp Lumens	240
Luminaire Lumens	106
Total Luminaire Efficiency	44 %
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	1.056
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.86
Spacing Criterion (90-270)	0.86
Spacing Criterion (Diagonal)	0.84
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.20 ft (Diameter)
Luminous Width (90-270)	0.20 ft (Diameter)
Luminous Height	0.50 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	440	440	440
55	86	86	86
65	0	0	0
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	θ
0	138.0
5	136.0
10	130.5
15	120.0
20	102.8
25	79.6
30	54.8
35	29.8
40	10.8
45	3.8
50	2.1
55	0.8
60	0.5
65	0.0
70	0.0
75	0.0
80	0.0
85	0.0
90	0.0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	46.03	19.20	43.30
0-30	82.17	34.20	77.30
0-40	101.40	42.30	95.30
0-60	106.23	44.30	99.90
0-80	106.35	44.30	100.00
0-90	106.35	44.30	100.00
10-90	93.54	39.00	88.00
20-40	55.37	23.10	52.10
20-50	59.27	24.70	55.70
40-70	4.95	2.10	4.70
60-80	0.12	0.10	0.10
70-80	0.00	0.00	0.00
80-90	0.00	0.00	0.00
90-110	0.00	0.00	0.00
90-120	0.00	0.00	0.00
90-130	0.00	0.00	0.00
90-150	0.00	0.00	0.00
90-180	0.00	0.00	0.00
110-180	0.00	0.00	0.00
0-180	106.35	44.30	100.00

Total Luminaire Efficiency = 44.30%

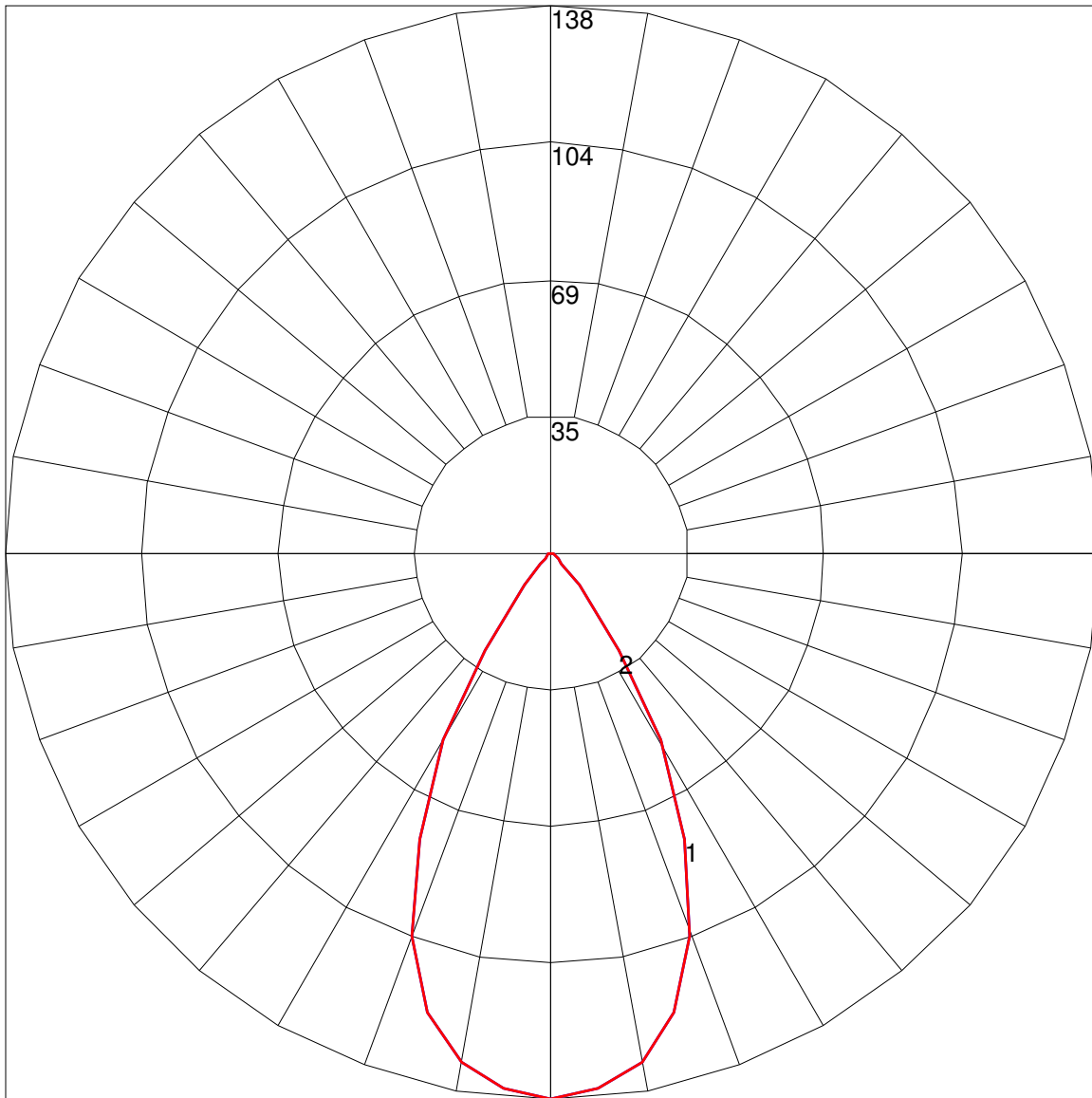
ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	12.81
10-20	33.22
20-30	36.14
30-40	19.23
40-50	3.90
50-60	0.93
60-70	0.12
70-80	0.00
80-90	0.00
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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POLAR GRAPH



Maximum Candela = 138 Located At Horizontal Angle = 0, Vertical Angle = 0

1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

2 - Vertical Plane Through Horizontal Angles (90 - 270)