



**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : SBL20\_MR16\_1W\_120DEG\_3\_14\_19.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] 00001  
 [TESTLAB] LED SPECIALISTS, INC.  
 [ISSUEDATE] 03-14-2019  
 [MANUFAC] SOURCE LIGHTING CO. BY: CAST  
 [LUMINAIRE] SLC Fixture p/n: SBL20  
 [LAMP] MR16 p/n: SLMR161XXW27 (RED), 1W LED, Beam 120°  
 [LAMP] Time aged: 50 Hrs, Warm up time before test: 50 Hrs.  
 [OTHER] POWER INPUT: Vin=12.0VAC, Iin=0.139A, Pin=1.058W, Pf=0.630  
 [OTHER] LIGHT OUPUT: CCT=2718K, CRI=84, Beam Angle 80°



**CHARACTERISTICS**

Lumens Per Lamp	80 (3 lamps)
Total Lamp Lumens	240
Luminaire Lumens	74
Total Luminaire Efficiency	31 %
Luminaire Efficacy Rating (LER)	70
Total Luminaire Watts	1.058
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.18
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	1632	1632	1632
55	118	118	118
65	0	0	0
75	0	0	0
85	0	0	0

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**CANDELA TABULATION**

	<b><math>\theta</math></b>
<b>0</b>	46.7
<b>5</b>	47.2
<b>10</b>	47.9
<b>15</b>	48.1
<b>20</b>	47.9
<b>25</b>	46.6
<b>30</b>	43.5
<b>35</b>	38.0
<b>40</b>	24.3
<b>45</b>	14.1
<b>50</b>	3.7
<b>55</b>	1.1
<b>60</b>	0.5
<b>65</b>	0.0
<b>70</b>	0.0
<b>75</b>	0.0
<b>80</b>	0.0
<b>85</b>	0.0
<b>90</b>	0.0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	18.13	7.60	24.50
0-30	39.44	16.40	53.20
0-40	61.84	25.80	83.50
0-60	73.96	30.80	99.80
0-80	74.08	30.90	100.00
0-90	74.08	30.90	100.00
10-90	69.56	29.00	93.90
20-40	43.71	18.20	59.00
20-50	54.42	22.70	73.50
40-70	12.24	5.10	16.50
60-80	0.12	0.10	0.20
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	74.08	30.90	100.00

Total Luminaire Efficiency = 30.90%

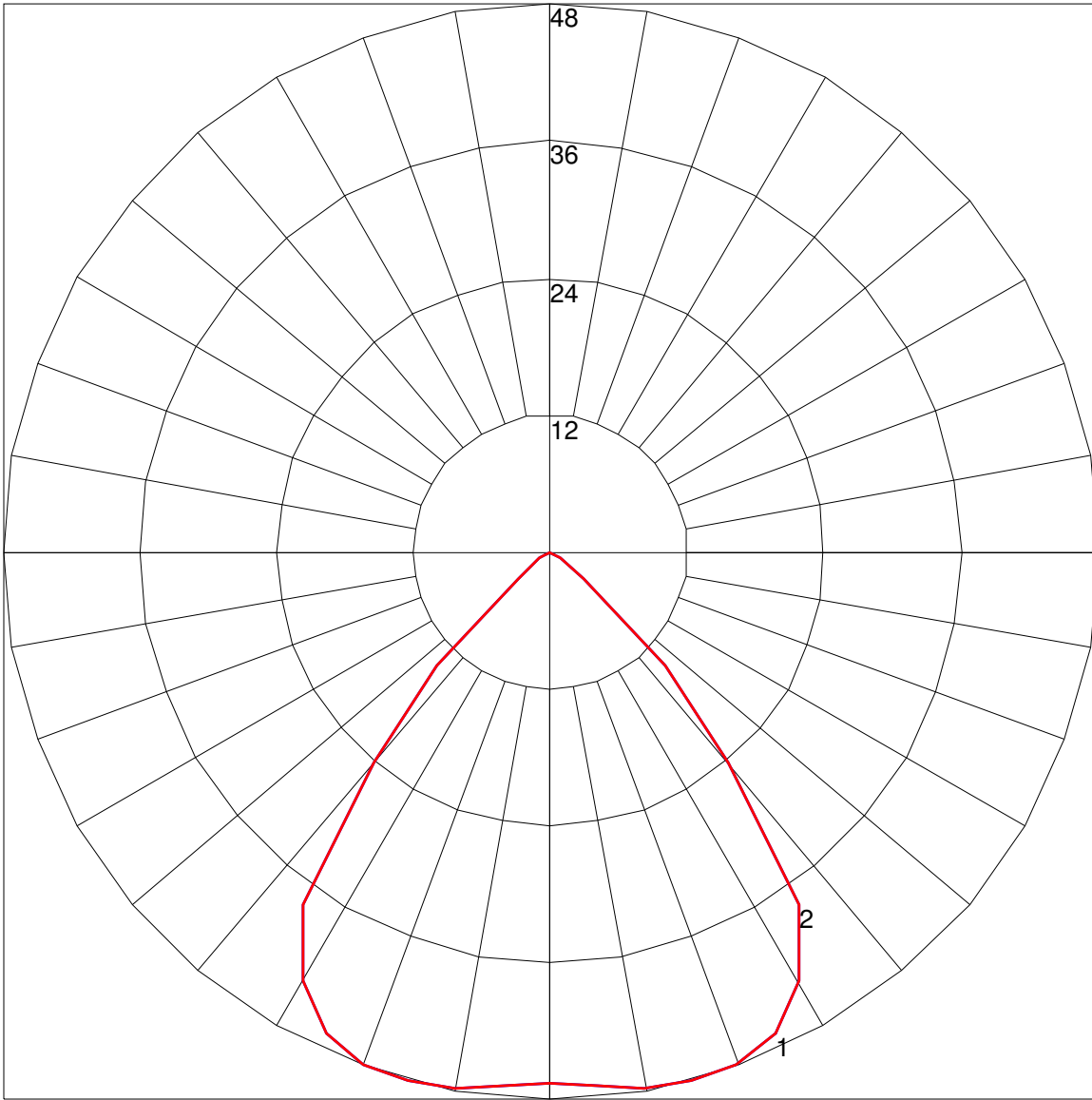
**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	4.52
10-20	13.61
20-30	21.31
30-40	22.40
40-50	10.71
50-60	1.41
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 = 48.1 Located At Horizontal Angle = 0, Vertical Angle = 15

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

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