



**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : SBL20\_MR16\_1W\_45DEG\_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: SLMR161W27 (RED), 1W LED, Beam 45°  
 [LAMP] Time aged: 50 Hrs, Warm up time before test: 50 Hrs.  
 [OTHER] POWER INPUT: Vin=12.0VAC, Iin=0.143A, Pin=1.075W, Pf=0.636  
 [OTHER] LIGHT OUPUT: CCT=2745K, CRI=84, Beam Angle 40°



**CHARACTERISTICS**

Lumens Per Lamp	80 (3 lamps)
Total Lamp Lumens	240
Luminaire Lumens	112
Total Luminaire Efficiency	47 %
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	1.075
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.66
Spacing Criterion (90-270)	0.66
Spacing Criterion (Diagonal)	0.66
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



SLC Fixture SBL20



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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	347	347	347
55	54	54	54
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>	217.7
<b>5</b>	211.3
<b>10</b>	189.6
<b>15</b>	154.0
<b>20</b>	108.4
<b>25</b>	69.5
<b>30</b>	40.9
<b>35</b>	23.1
<b>40</b>	7.3
<b>45</b>	3.0
<b>50</b>	1.0
<b>55</b>	0.5
<b>60</b>	0.0
<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	61.48	25.60	55.00
0-30	94.11	39.20	84.20
0-40	108.60	45.30	97.20
0-60	111.76	46.60	100.00
0-80	111.76	46.60	100.00
0-90	111.76	46.60	100.00
10-90	92.29	38.50	82.60
20-40	47.13	19.60	42.20
20-50	49.84	20.80	44.60
40-70	3.16	1.30	2.80
60-80	0.00	0.00	0.00
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	111.76	46.60	100.00

Total Luminaire Efficiency = 46.60%

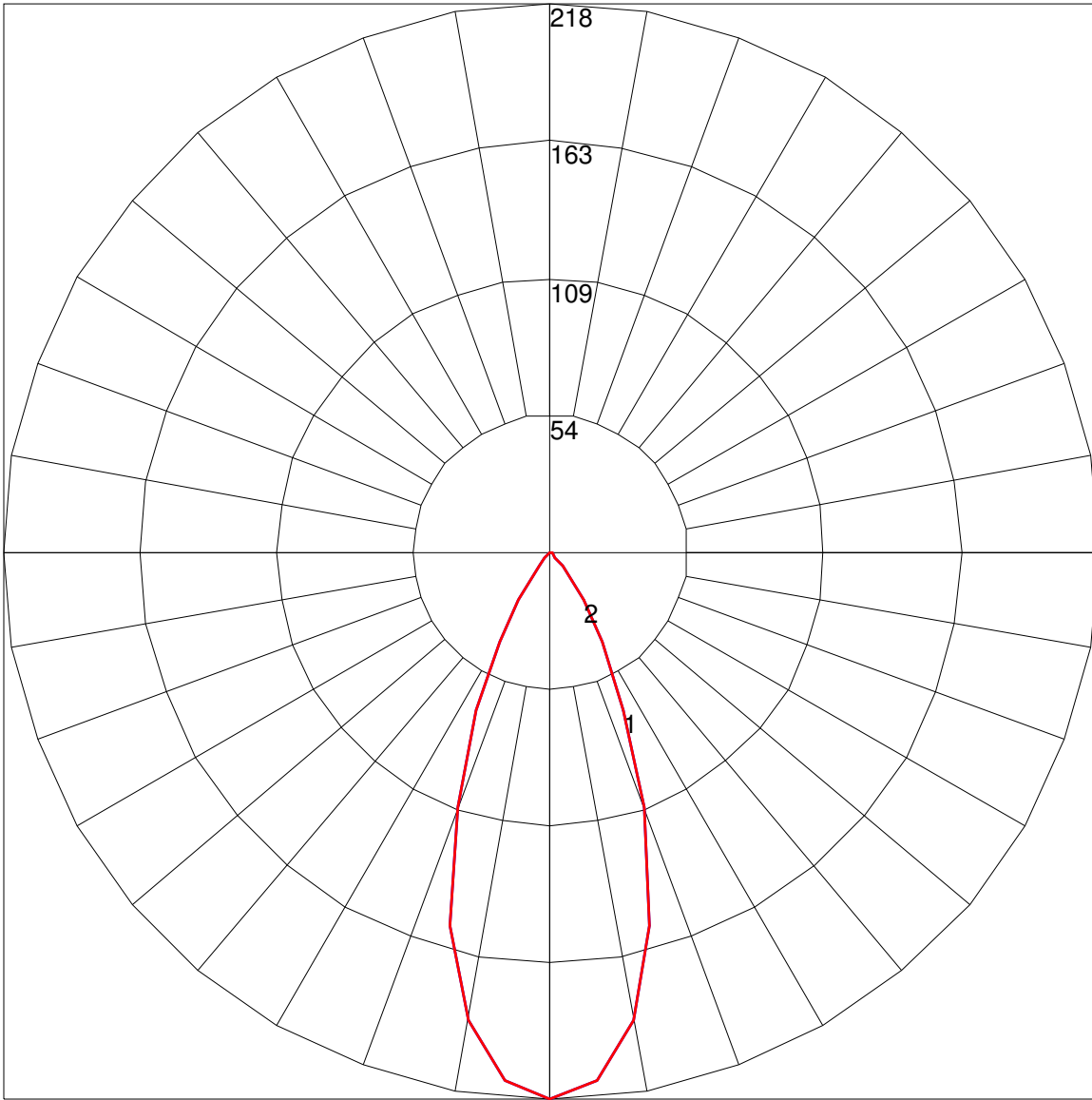
**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	19.47
10-20	42.01
20-30	32.63
30-40	14.50
40-50	2.72
50-60	0.44
60-70	0.00
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 = 217.7 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)