

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: METALUX

Report Number: P290505

Luminaire Tested: **8SSRK-SLW-80-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290505
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-17)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SSRK-SLW-80-L835-CD1-U
Description: 8000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH SQUARE FROSTED LENS AND 80 CRI 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8017.4 lumens
Efficiency: N/A
Efficacy: 141.5 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.23 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')
CIE Type: Direct

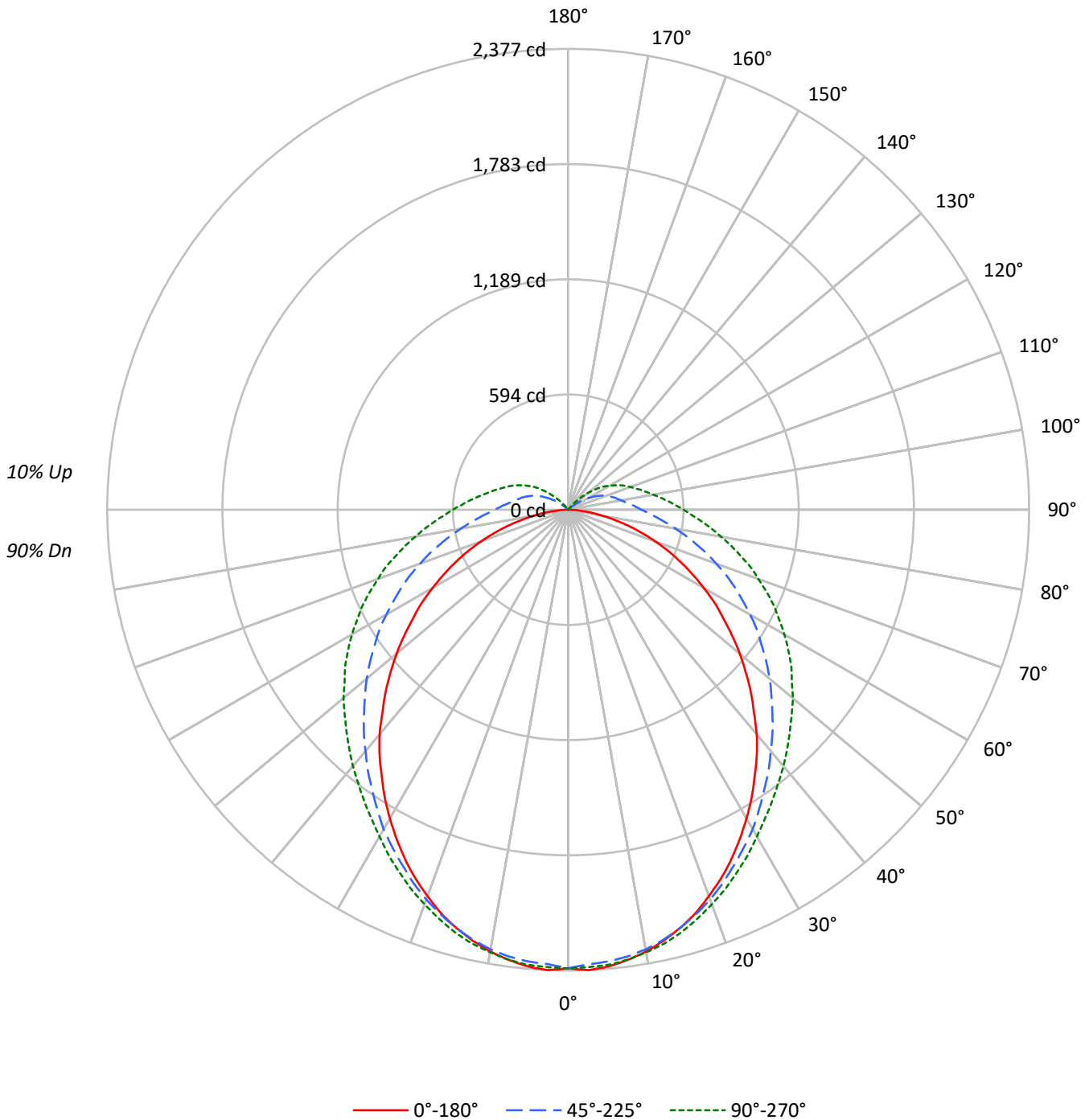
Input Watts (W): 56.6491
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					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	50	30	10	50	30	10	0		
RCR																										
0	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	90					90			
1	104	99	94	89	101	96	91	87	89	86	82	84	81	78	79	76	74	71					71			
2	94	85	78	71	91	82	76	70	77	72	67	72	68	64	68	64	61	58					58			
3	86	74	66	59	82	72	64	58	68	61	55	63	58	53	60	55	51	48					48			
4	78	66	56	49	75	64	55	49	60	53	47	56	50	45	53	48	43	41					41			
5	72	59	49	42	69	57	48	42	54	46	40	50	44	39	48	42	38	35					35			
6	66	53	43	37	64	51	43	36	48	41	35	46	39	34	43	37	33	31					31			
7	61	48	39	32	59	46	38	32	44	36	31	42	35	30	39	34	29	27					27			
8	57	43	35	29	55	42	34	28	40	33	28	38	32	27	36	30	26	24					24			
9	53	40	32	26	51	39	31	26	37	30	25	35	29	24	33	28	24	22					22			
10	50	37	29	23	48	36	28	23	34	27	23	33	26	22	31	26	21	20					20			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	76382	76382	76382
5°	76535	60729	56605
10°	75614	50288	44580
15°	74223	42364	36413
20°	72330	36137	30304
25°	70221	30990	25640
30°	67763	26864	21927
35°	65138	23228	19024
40°	62670	20238	16715
45°	59587	17690	14765
50°	56632	15522	13177
55°	53387	13542	11775
60°	50291	11810	10485
65°	46810	10202	9335
70°	42624	8698	8216
75°	37102	7318	7203
80°	30052	6094	6280
85°	21216	5080	5472



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.5	2.8
10°-20°	632.2	7.9
20°-30°	935.3	11.7
30°-40°	1104.6	13.8
40°-50°	1148.2	14.3
50°-60°	1082.6	13.5
60°-70°	922.8	11.5
70°-80°	697.9	8.7
80°-90°	470.9	5.9
90°-100°	323.3	4.0
100°-110°	231.9	2.9
110°-120°	148.8	1.9
120°-130°	75.9	0.9
130°-140°	19.3	0.2
140°-150°	0.3	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1791.0	22.3
0°-40°	2895.6	36.1
0°-60°	5126.4	63.9
0°-90°	7218.1	90.0
90°-120°	703.9	8.8
90°-150°	799.4	10.0
90°-180°	799.0	10.0
0°-180°	8017.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2365	2365	2365	2365	2365	
5°	2365	2359	2340	2361	2357	224
15°	2233	2240	2233	2255	2257	629
25°	1990	2013	2023	2058	2062	915
35°	1676	1716	1762	1815	1834	1050
45°	1332	1398	1489	1581	1617	1027
55°	976	1077	1217	1348	1404	876
65°	640	770	948	1104	1170	635
75°	320	476	681	855	920	343
85°	71	239	459	629	690	81
90°	1	169	377	538	595	4
95°	1	134	322	463	515	1
105°	2	86	244	350	390	2
115°	2	11	169	265	298	2
125°	2	3	71	165	198	2
135°	2	1	1	52	77	2
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2365.4	2365.4	2365.4	2365.4	2365.4
2.5°	2377.4	2369.4	2346.5	2366.4	2361.4
5°	2365.4	2359.4	2339.5	2361.4	2357.4
7.5°	2342.5	2341.5	2325.5	2348.4	2341.5
10°	2314.5	2315.5	2302.5	2325.5	2318.5
12.5°	2276.6	2280.6	2271.6	2293.5	2292.5
15°	2232.6	2239.6	2232.6	2254.6	2256.6
17.5°	2182.7	2193.7	2188.7	2215.6	2212.7
20°	2120.8	2135.8	2139.8	2166.7	2165.7
22.5°	2058.9	2077.9	2084.8	2112.8	2116.8
25°	1990.0	2013.0	2022.9	2057.9	2061.9
27.5°	1915.1	1945.1	1963.0	1998.0	2007.0
30°	1839.2	1871.2	1903.1	1938.1	1946.1
32.5°	1760.3	1795.3	1832.2	1880.2	1889.1
35°	1676.5	1716.4	1762.3	1815.3	1834.2
37.5°	1597.6	1642.5	1696.4	1758.3	1778.3
40°	1512.7	1558.6	1625.5	1695.4	1727.4
42.5°	1417.9	1479.8	1559.6	1643.5	1671.5
45°	1332.0	1397.9	1488.7	1580.6	1616.6
47.5°	1242.1	1319.0	1421.8	1523.7	1562.6
50°	1155.3	1239.1	1355.9	1465.8	1512.7
52.5°	1065.4	1160.2	1287.1	1408.9	1452.8
55°	976.5	1077.4	1217.2	1348.0	1403.9
57.5°	896.6	999.5	1154.3	1288.1	1345.0
60°	806.8	925.6	1083.4	1227.1	1287.1
62.5°	723.9	844.7	1013.5	1166.2	1226.1
65°	640.0	769.8	947.6	1104.3	1170.2
67.5°	561.2	692.0	880.7	1043.4	1106.3
70°	477.3	619.1	811.8	979.5	1043.4
72.5°	400.4	546.2	747.9	917.6	986.5
75°	320.5	476.3	681.0	854.7	919.6
77.5°	249.6	408.4	621.1	795.8	860.7
80°	180.7	346.5	561.2	736.9	799.8
82.5°	122.8	289.6	508.2	683.0	744.9
85°	70.9	238.6	459.3	629.0	690.0
87.5°	27.0	198.7	415.4	582.1	638.0
90°	1.0	168.7	377.4	538.2	595.1
92.5°	1.0	147.8	348.5	498.2	551.2
95°	1.0	133.8	321.5	463.3	515.2
97.5°	2.0	122.8	297.5	432.3	478.3
100°	2.0	111.8	277.6	402.4	446.3
102.5°	2.0	100.8	259.6	375.4	416.4
105°	2.0	85.9	243.6	350.5	390.4
107.5°	2.0	66.9	225.7	329.5	364.4
110°	2.0	48.9	206.7	308.5	342.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.0	30.0	189.7	287.6	320.5
115°	2.0	11.0	168.7	264.6	297.5
117.5°	2.0	4.0	143.8	242.6	271.6
120°	2.0	3.0	119.8	218.7	247.6
122.5°	2.0	3.0	94.9	192.7	223.7
125°	2.0	3.0	70.9	164.8	197.7
127.5°	2.0	2.0	45.9	135.8	165.7
130°	2.0	2.0	22.0	107.8	136.8
132.5°	2.0	2.0	1.0	78.9	106.8
135°	2.0	1.0	1.0	51.9	76.9
137.5°	2.0	1.0	0.0	25.0	49.9
140°	2.0	1.0	0.0	0.0	20.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)