

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: P289643

Luminaire Tested: **8SSRK-TB-80-L950-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P289643  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-1)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SSRK-TB-80-L950-CD1-U  
Description: 8000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH TRILOBE RIBBED LENS AND 90 CRI 5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7358.5 lumens  
Efficiency: N/A  
Efficacy: 129.9 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.08 / 1.24  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')  
CIE Type: Direct

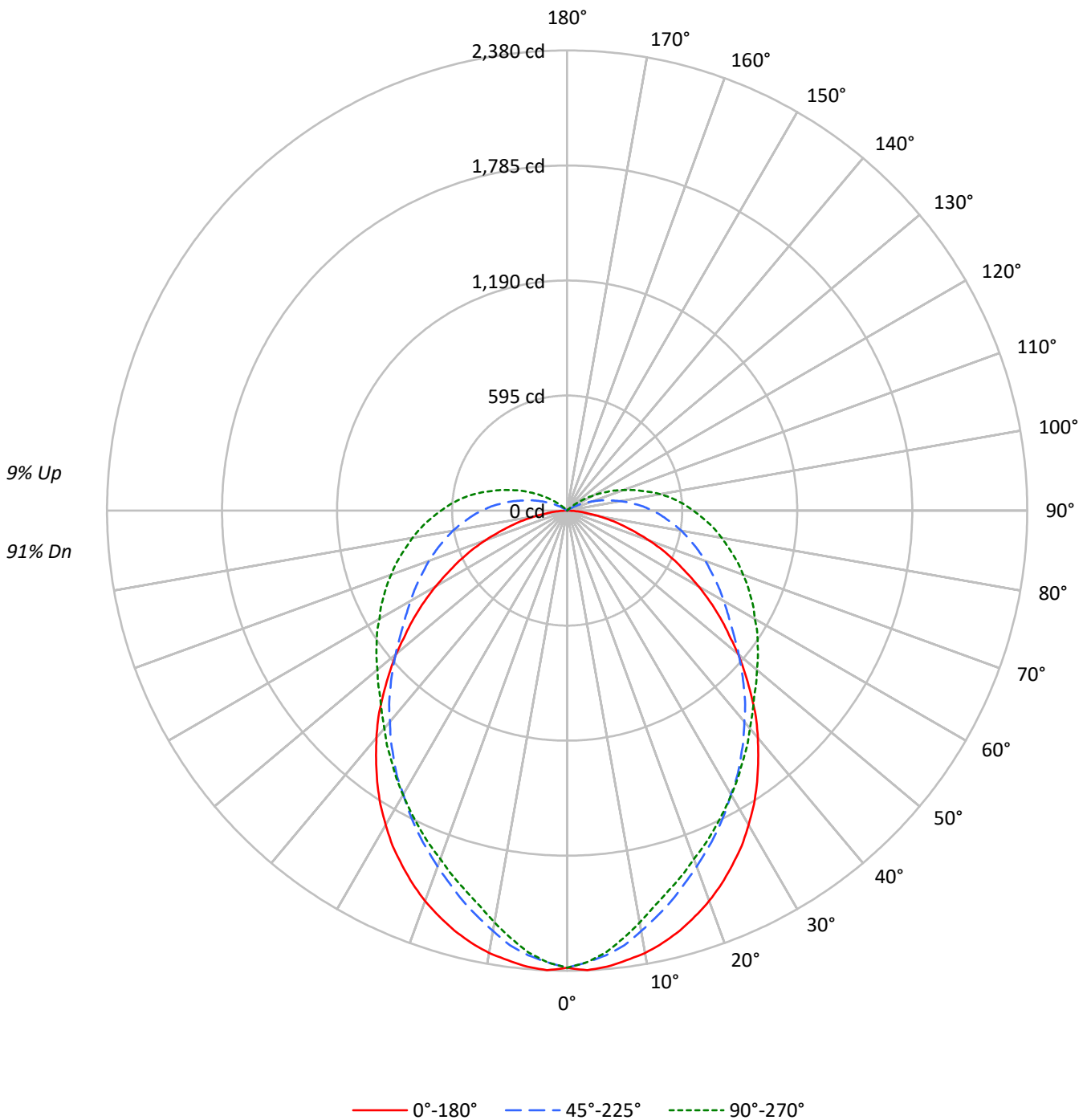
Input Watts (W): 56.6491  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	91
1	104	98	93	89	100	95	90	86	89	85	82	84	80	78	78	76	74	71
2	94	85	77	71	90	82	75	69	77	71	66	72	67	63	68	64	60	58
3	85	74	65	58	82	72	64	57	67	60	55	63	58	53	60	55	51	48
4	78	65	56	49	75	63	55	48	60	52	47	56	50	45	53	48	43	41
5	72	58	49	42	69	57	48	41	53	46	40	50	44	39	48	42	38	35
6	66	53	43	37	64	51	42	36	48	41	35	46	39	34	43	38	33	31
7	61	48	39	32	59	46	38	32	44	37	31	42	35	30	40	34	29	27
8	57	44	35	29	55	42	34	29	40	33	28	38	32	27	36	31	26	24
9	54	40	32	26	52	39	31	26	37	30	25	35	29	24	34	28	24	22
10	50	37	29	24	48	36	28	23	34	28	23	33	27	22	31	26	22	20

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	76356	76356	76356
5°	76628	59929	55078
10°	75911	48228	41600
15°	74775	39639	32808
20°	73279	33078	26833
25°	71350	28067	22505
30°	69149	23917	19131
35°	66553	20615	16414
40°	63561	17757	14233
45°	60137	15355	12482
50°	56588	13258	11159
55°	52933	11517	10088
60°	48976	10189	9131
65°	44937	9101	8348
70°	40240	8140	7624
75°	34486	7282	6971
80°	27873	6510	6374
85°	18942	5725	5818



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	218.9	3.0
10°-20°	596.7	8.1
20°-30°	863.3	11.7
30°-40°	1004.2	13.6
40°-50°	1022.2	13.9
50°-60°	951.1	12.9
60°-70°	828.2	11.3
70°-80°	674.2	9.2
80°-90°	510.7	6.9
90°-100°	354.2	4.8
100°-110°	208.1	2.8
110°-120°	97.6	1.3
120°-130°	27.8	0.4
130°-140°	1.5	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1678.8	22.8
0°-40°	2683.0	36.5
0°-60°	4656.3	63.3
0°-90°	6669.4	90.6
90°-120°	659.9	9.0
90°-150°	689.2	9.4
90°-180°	689.0	9.4
0°-180°	7358.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2365	2365	2365	2365	2365	
5°	2368	2350	2309	2309	2294	224
15°	2249	2190	2089	2052	2033	634
25°	2022	1933	1832	1817	1810	931
35°	1713	1624	1564	1579	1583	1070
45°	1344	1292	1292	1344	1367	1038
55°	968	964	1035	1158	1203	864
65°	614	667	845	994	1046	609
75°	298	436	678	834	890	318
85°	63	272	518	682	734	73
90°	0	197	439	600	652	4
95°	0	127	361	521	574	0
105°	0	30	205	346	395	0
115°	0	0	82	190	231	0
125°	0	0	4	63	93	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	4	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°	2364.6	2364.6	2364.6	2364.6	2364.6
2.5°	2379.5	2368.3	2338.5	2349.7	2338.5
5°	2368.3	2349.7	2308.7	2308.7	2293.8
7.5°	2346.0	2323.6	2267.8	2249.2	2230.5
10°	2323.6	2290.1	2208.2	2185.9	2163.5
12.5°	2290.1	2241.7	2148.6	2115.1	2092.8
15°	2249.2	2189.6	2089.0	2051.8	2033.2
17.5°	2200.8	2133.7	2022.0	1992.2	1977.3
20°	2148.6	2070.4	1958.7	1932.6	1917.7
22.5°	2089.0	1999.7	1895.4	1876.8	1865.6
25°	2022.0	1932.6	1832.1	1817.2	1809.8
27.5°	1955.0	1858.2	1765.1	1757.6	1753.9
30°	1876.8	1783.7	1694.3	1698.0	1698.0
32.5°	1798.6	1705.5	1634.7	1642.2	1642.2
35°	1712.9	1623.6	1564.0	1578.9	1582.6
37.5°	1623.6	1545.4	1497.0	1519.3	1530.5
40°	1534.2	1463.4	1426.2	1459.7	1470.9
42.5°	1444.8	1377.8	1362.9	1403.9	1418.8
45°	1344.3	1292.2	1292.2	1344.3	1366.6
47.5°	1247.5	1214.0	1225.1	1292.2	1325.7
50°	1154.4	1128.3	1158.1	1243.7	1281.0
52.5°	1053.8	1046.4	1094.8	1199.1	1243.7
55°	968.2	964.5	1035.2	1158.1	1202.8
57.5°	875.1	886.3	983.1	1117.1	1165.5
60°	785.7	808.1	934.7	1076.2	1120.9
62.5°	696.3	741.0	890.0	1035.2	1087.3
65°	614.4	666.6	845.3	994.2	1046.4
67.5°	532.5	599.5	800.6	957.0	1009.1
70°	450.6	539.9	759.7	916.0	968.2
72.5°	368.7	487.8	718.7	875.1	930.9
75°	297.9	435.7	677.7	834.1	890.0
77.5°	230.9	394.7	636.8	800.6	849.0
80°	167.6	350.0	599.5	759.7	811.8
82.5°	108.0	312.8	558.6	718.7	774.5
85°	63.3	271.8	517.6	681.5	733.6
87.5°	26.1	230.9	480.4	640.5	692.6
90°	0.0	197.4	439.4	599.5	651.7
92.5°	0.0	163.8	402.2	562.3	614.4
95°	0.0	126.6	361.2	521.3	573.5
97.5°	0.0	96.8	320.2	480.4	532.5
100°	0.0	74.5	279.3	432.0	487.8
102.5°	0.0	52.1	238.3	387.3	443.1
105°	0.0	29.8	204.8	346.3	394.7
107.5°	0.0	14.9	171.3	305.3	353.8
110°	0.0	3.7	137.8	264.4	309.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	108.0	227.2	271.8
115°	0.0	0.0	81.9	189.9	230.9
117.5°	0.0	0.0	55.9	156.4	193.6
120°	0.0	0.0	33.5	122.9	156.4
122.5°	0.0	0.0	14.9	93.1	122.9
125°	0.0	0.0	3.7	63.3	93.1
127.5°	0.0	0.0	0.0	37.2	63.3
130°	0.0	0.0	0.0	18.6	37.2
132.5°	0.0	0.0	0.0	3.7	14.9
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
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°	3.7	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)