

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: P289767

Luminaire Tested: **4SSRK-TS-80-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289767
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-6)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SSRK-TS-80-L950-CD1-U
Description: 8000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH TRILOBE SMOOTH LENS AND 90 CRI 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6901.6 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')
CIE Type: Semi-Direct

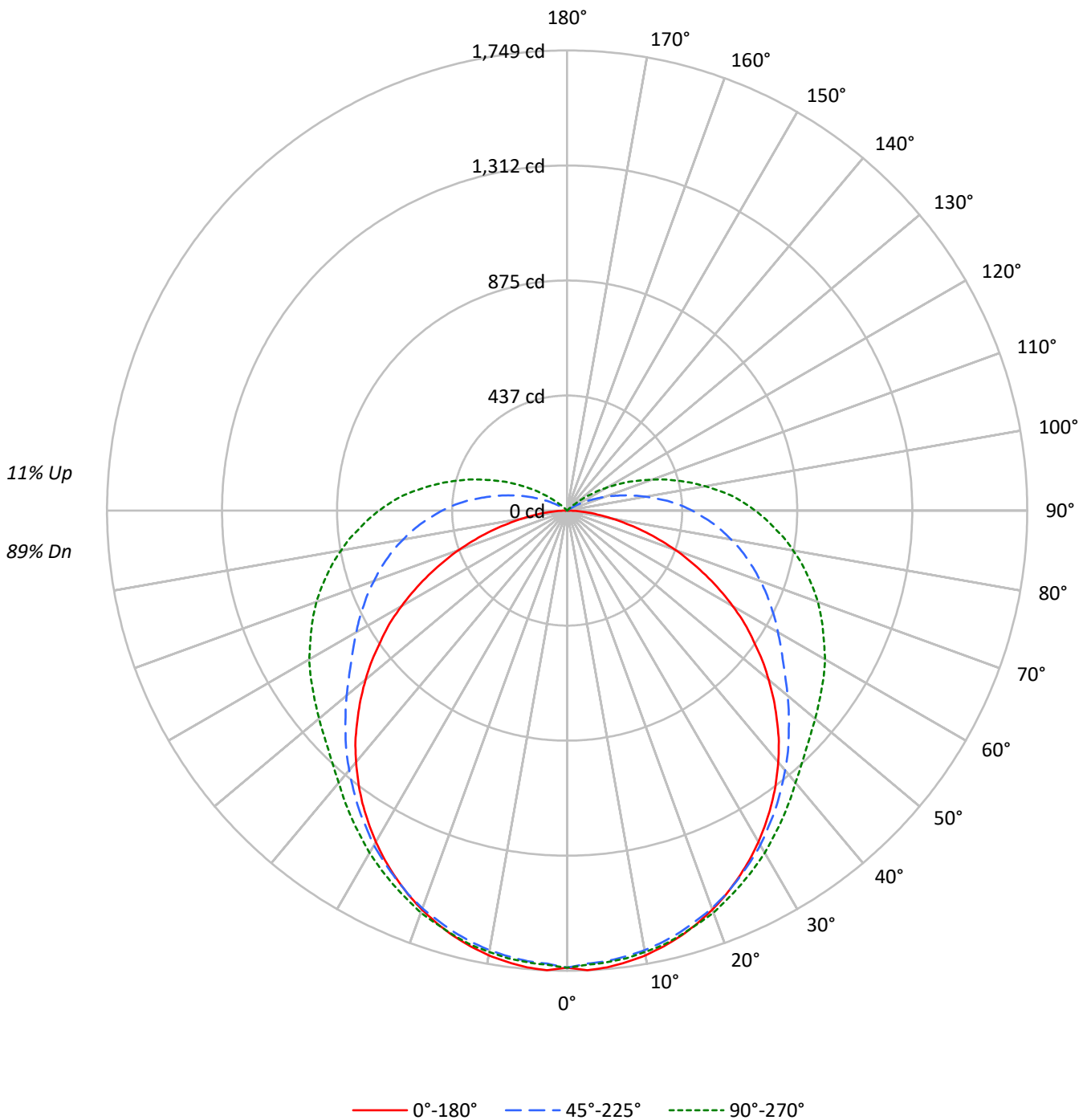
Input Watts (W): 62.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	116	116	116	116	112	112	112	112	105	105	105		98	98	98		92	92	92	89
1	103	97	91	87	99	94	89	84	87	83	79		81	78	75		76	73	71	68
2	93	83	75	68	89	80	73	67	75	68	63		70	65	60		65	61	57	54
3	84	72	63	56	80	69	61	54	65	58	52		61	55	50		57	52	47	45
4	76	63	54	46	73	61	52	45	57	50	44		53	47	42		50	45	40	37
5	70	56	47	39	67	54	45	39	51	43	37		48	41	36		45	39	34	32
6	65	50	41	34	62	49	40	34	46	38	32		43	36	31		41	35	30	28
7	60	46	36	30	57	44	36	29	42	34	28		39	33	28		37	31	27	24
8	56	41	33	27	53	40	32	26	38	31	25		36	29	25		34	28	24	22
9	52	38	29	24	50	37	29	23	35	28	23		33	27	22		31	26	21	19
10	49	35	27	21	47	34	26	21	32	25	21		31	24	20		29	23	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	112194	112194	112194
5°	112562	89162	82778
10°	111746	73981	65521
15°	110637	62811	53911
20°	109249	54209	45512
25°	107641	47124	38970
30°	105905	41331	33846
35°	103947	36311	29623
40°	101653	31968	26138
45°	98913	28201	23455
50°	95730	24943	21443
55°	91926	22200	19814
60°	87595	20089	18438
65°	81532	18292	17121
70°	74347	16664	15965
75°	64396	15168	14807
80°	51773	13690	13696
85°	35287	12236	12590



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.4	2.4
10°-20°	470.9	6.8
20°-30°	715.0	10.4
30°-40°	869.2	12.6
40°-50°	927.6	13.4
50°-60°	909.7	13.2
60°-70°	831.2	12.0
70°-80°	705.4	10.2
80°-90°	548.9	8.0
90°-100°	387.0	5.6
100°-110°	230.1	3.3
110°-120°	108.9	1.6
120°-130°	31.5	0.5
130°-140°	1.8	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°	1350.3	19.6
0°-40°	2219.4	32.2
0°-60°	4056.8	58.8
0°-90°	6142.3	89.0
90°-120°	726.0	10.5
90°-150°	759.3	11.0
90°-180°	759.0	11.0
0°-180°	6901.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1737	1737	1737	1737	1737	
5°	1743	1736	1719	1729	1724	165
15°	1673	1670	1659	1673	1670	472
25°	1540	1541	1543	1567	1567	710
35°	1357	1364	1382	1416	1428	848
45°	1128	1147	1191	1254	1284	870
55°	865	902	1002	1133	1181	775
65°	581	656	853	1016	1073	576
75°	298	452	709	885	945	316
85°	70	288	556	732	794	79
90°	5	214	475	653	714	7
95°	5	143	392	566	632	4
105°	4	39	224	379	437	5
115°	4	4	91	208	258	4
125°	3	2	4	69	102	2
135°	0	0	0	0	0	1
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°	1737.2	1737.2	1737.2	1737.2	1737.2
2.5°	1748.9	1742.6	1723.7	1733.6	1728.2
5°	1742.6	1736.3	1719.2	1729.1	1723.7
7.5°	1730.9	1726.4	1709.2	1720.1	1716.5
10°	1716.5	1711.9	1696.6	1709.2	1703.8
12.5°	1696.6	1692.1	1679.5	1692.1	1690.3
15°	1673.2	1669.6	1658.8	1673.2	1670.5
17.5°	1645.3	1642.6	1633.6	1651.6	1648.0
20°	1613.7	1611.9	1609.2	1625.4	1626.3
22.5°	1579.5	1579.5	1577.7	1595.7	1596.6
25°	1539.9	1540.8	1542.6	1566.9	1566.9
27.5°	1499.3	1502.0	1506.5	1529.9	1535.3
30°	1454.3	1458.8	1468.7	1493.9	1502.0
32.5°	1406.5	1413.7	1424.5	1456.1	1464.2
35°	1356.9	1364.2	1382.2	1416.4	1428.1
37.5°	1303.8	1311.9	1335.3	1374.1	1389.4
40°	1247.9	1256.9	1288.5	1337.1	1350.6
42.5°	1191.2	1203.8	1242.5	1294.8	1315.5
45°	1128.1	1147.0	1191.2	1254.2	1284.0
47.5°	1065.0	1087.5	1142.5	1220.0	1256.0
50°	1000.1	1025.4	1093.8	1189.4	1230.8
52.5°	935.3	963.2	1046.1	1160.5	1205.6
55°	865.0	901.9	1001.9	1132.6	1181.2
57.5°	800.1	839.8	962.3	1104.7	1157.8
60°	727.1	777.6	925.4	1075.8	1131.7
62.5°	655.0	715.4	890.2	1046.1	1101.1
65°	581.2	655.9	853.3	1016.4	1073.1
67.5°	508.2	595.6	819.0	985.7	1044.3
70°	438.8	543.3	781.2	954.2	1013.7
72.5°	365.8	497.4	746.0	920.8	980.3
75°	298.2	452.3	709.1	884.8	945.2
77.5°	229.8	410.0	673.1	848.8	910.9
80°	172.1	370.3	633.4	810.9	872.2
82.5°	117.1	330.7	594.7	772.2	836.2
85°	70.3	288.3	555.9	732.5	793.8
87.5°	31.5	251.4	513.6	692.0	756.0
90°	5.4	213.5	474.8	653.2	714.5
92.5°	6.3	179.3	435.2	611.8	673.1
95°	5.4	143.3	391.9	565.8	631.6
97.5°	5.4	112.6	346.0	520.8	581.2
100°	4.5	83.8	301.8	473.0	532.5
102.5°	4.5	59.5	262.2	426.2	485.7
105°	4.5	38.7	223.5	379.3	437.0
107.5°	4.5	21.6	185.6	334.3	392.8
110°	4.5	8.1	151.4	293.7	342.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.6	3.6	118.0	248.7	299.1
115°	3.6	3.6	91.0	208.1	257.7
117.5°	3.6	2.7	62.2	170.3	215.3
120°	3.6	2.7	38.7	136.1	174.8
122.5°	2.7	1.8	18.9	100.9	139.7
125°	2.7	1.8	4.5	69.4	101.8
127.5°	2.7	0.9	0.0	41.4	70.3
130°	1.8	0.9	0.0	19.8	41.4
132.5°	1.8	0.9	0.0	3.6	18.0
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°	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)