

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: P289771

Luminaire Tested: **4SSRK-TS-80-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289771
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-L850-CD1-U
Description: 8000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH TRILOBE SMOOTH LENS AND 80 CRI 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7659.8 lumens
Efficiency: N/A
Efficacy: 121.8 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

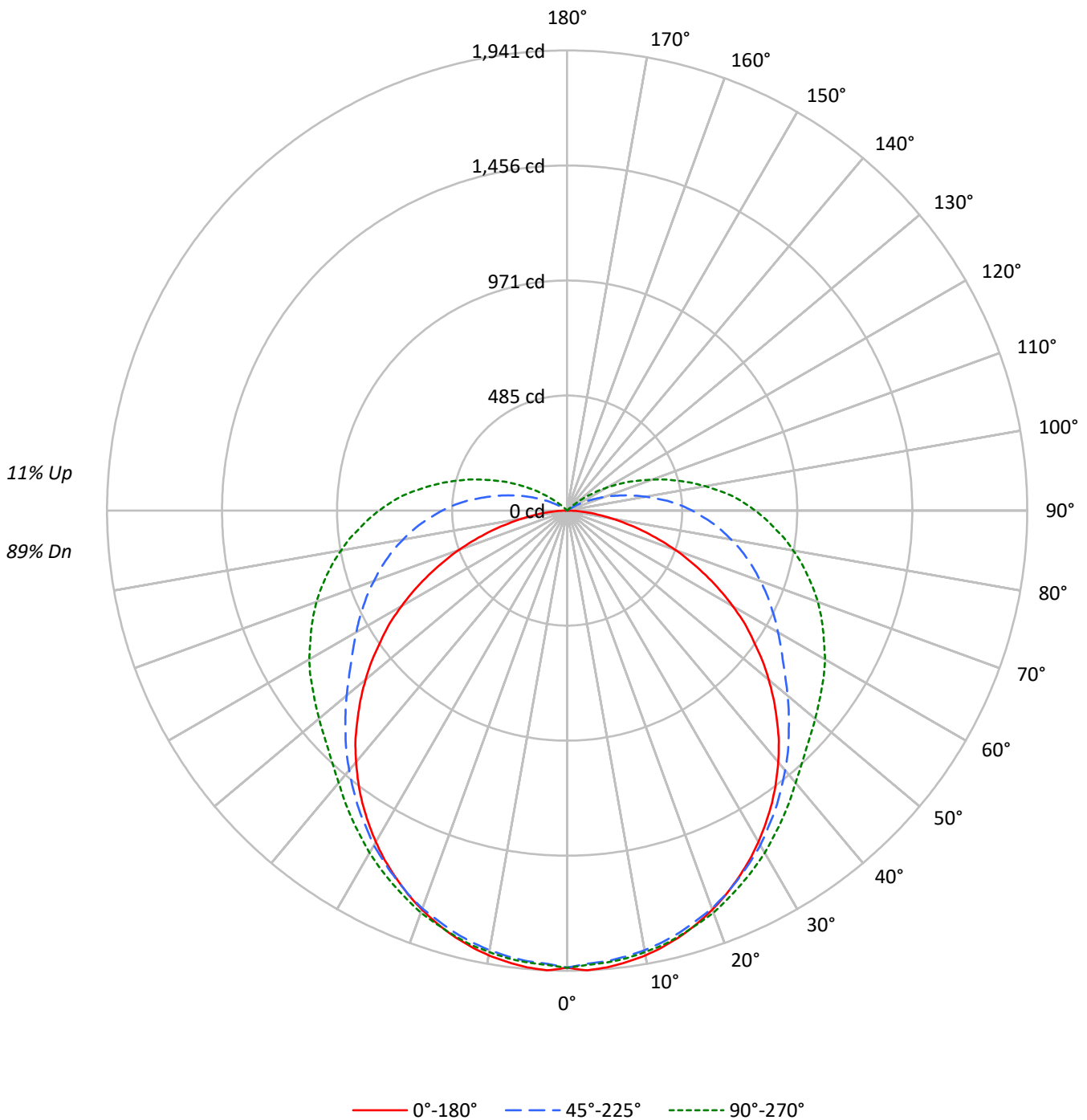
Input Watts (W): 62.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	124522	124522	124522
5°	124932	98959	91874
10°	124024	82114	72724
15°	122797	69710	59833
20°	121253	60165	50513
25°	119461	52299	43250
30°	117535	45870	37564
35°	115369	40299	32878
40°	112821	35479	29009
45°	109776	31298	26030
50°	106249	27684	23799
55°	102022	24640	21991
60°	97221	22295	20463
65°	90482	20301	19002
70°	82513	18495	17718
75°	71479	16834	16434
80°	57459	15194	15200
85°	39152	13581	13973



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.4	2.4
10°-20°	522.6	6.8
20°-30°	793.6	10.4
30°-40°	964.6	12.6
40°-50°	1029.5	13.4
50°-60°	1009.7	13.2
60°-70°	922.5	12.0
70°-80°	782.9	10.2
80°-90°	609.2	8.0
90°-100°	429.5	5.6
100°-110°	255.3	3.3
110°-120°	120.9	1.6
120°-130°	35.0	0.5
130°-140°	2.0	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°	1498.6	19.6
0°-40°	2463.3	32.2
0°-60°	4502.4	58.8
0°-90°	6817.0	89.0
90°-120°	805.7	10.5
90°-150°	842.8	11.0
90°-180°	843.0	11.0
0°-180°	7659.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1928	1928	1928	1928	1928	
5°	1934	1927	1908	1919	1913	184
15°	1857	1853	1841	1857	1854	524
25°	1709	1710	1712	1739	1739	788
35°	1506	1514	1534	1572	1585	942
45°	1252	1273	1322	1392	1425	966
55°	960	1001	1112	1257	1311	860
65°	645	728	947	1128	1191	639
75°	331	502	787	982	1049	351
85°	78	320	617	813	881	87
90°	6	237	527	725	793	7
95°	6	159	435	628	701	5
105°	5	43	248	421	485	5
115°	4	4	101	231	286	4
125°	3	2	5	77	113	3
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



TEST NUMBER: P289771

CATALOG NUMBER: 4SSRK-TS-80-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1928.1	1928.1	1928.1	1928.1	1928.1
2.5°	1941.1	1934.1	1913.1	1924.1	1918.1
5°	1934.1	1927.1	1908.1	1919.1	1913.1
7.5°	1921.1	1916.1	1897.1	1909.1	1905.1
10°	1905.1	1900.1	1883.1	1897.1	1891.1
12.5°	1883.1	1878.1	1864.1	1878.1	1876.1
15°	1857.1	1853.0	1841.0	1857.1	1854.0
17.5°	1826.0	1823.0	1813.0	1833.0	1829.0
20°	1791.0	1789.0	1786.0	1804.0	1805.0
22.5°	1753.0	1753.0	1751.0	1771.0	1772.0
25°	1709.0	1710.0	1712.0	1739.0	1739.0
27.5°	1664.0	1667.0	1672.0	1698.0	1704.0
30°	1614.0	1619.0	1630.0	1658.0	1667.0
32.5°	1561.0	1569.0	1581.0	1616.0	1625.0
35°	1506.0	1514.0	1534.0	1572.0	1585.0
37.5°	1447.0	1456.0	1482.0	1525.0	1542.0
40°	1385.0	1395.0	1430.0	1484.0	1499.0
42.5°	1322.0	1336.0	1379.0	1437.0	1460.0
45°	1252.0	1273.0	1322.0	1392.0	1425.0
47.5°	1182.0	1207.0	1268.0	1354.0	1394.0
50°	1110.0	1138.0	1214.0	1320.0	1366.0
52.5°	1038.0	1069.0	1161.0	1288.0	1338.0
55°	960.0	1001.0	1112.0	1257.0	1311.0
57.5°	888.0	932.0	1068.0	1226.0	1285.0
60°	807.0	863.0	1027.0	1194.0	1256.0
62.5°	727.0	794.0	988.0	1161.0	1222.0
65°	645.0	728.0	947.0	1128.0	1191.0
67.5°	564.0	661.0	909.0	1094.0	1159.0
70°	487.0	603.0	867.0	1059.0	1125.0
72.5°	406.0	552.0	828.0	1022.0	1088.0
75°	331.0	502.0	787.0	982.0	1049.0
77.5°	255.0	455.0	747.0	942.0	1011.0
80°	191.0	411.0	703.0	900.0	968.0
82.5°	130.0	367.0	660.0	857.0	928.0
85°	78.0	320.0	617.0	813.0	881.0
87.5°	35.0	279.0	570.0	768.0	839.0
90°	6.0	237.0	527.0	725.0	793.0
92.5°	7.0	199.0	483.0	679.0	747.0
95°	6.0	159.0	435.0	628.0	701.0
97.5°	6.0	125.0	384.0	578.0	645.0
100°	5.0	93.0	335.0	525.0	591.0
102.5°	5.0	66.0	291.0	473.0	539.0
105°	5.0	43.0	248.0	421.0	485.0
107.5°	5.0	24.0	206.0	371.0	436.0
110°	5.0	9.0	168.0	326.0	380.0



TEST NUMBER: P289771

CATALOG NUMBER: 4SSRK-TS-80-L850-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	4.0	4.0	131.0	276.0	332.0
115°	4.0	4.0	101.0	231.0	286.0
117.5°	4.0	3.0	69.0	189.0	239.0
120°	4.0	3.0	43.0	151.0	194.0
122.5°	3.0	2.0	21.0	112.0	155.0
125°	3.0	2.0	5.0	77.0	113.0
127.5°	3.0	1.0	0.0	46.0	78.0
130°	2.0	1.0	0.0	22.0	46.0
132.5°	2.0	1.0	0.0	4.0	20.0
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)