

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: P289803

Luminaire Tested: **8SSRK-TS-80-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289803
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: 8SSRK-TS-80-L850-CD1-U
Description: 8000 LUMEN, 8 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: 7778.1 lumens
Efficiency: N/A
Efficacy: 137.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')
CIE Type: Semi-Direct

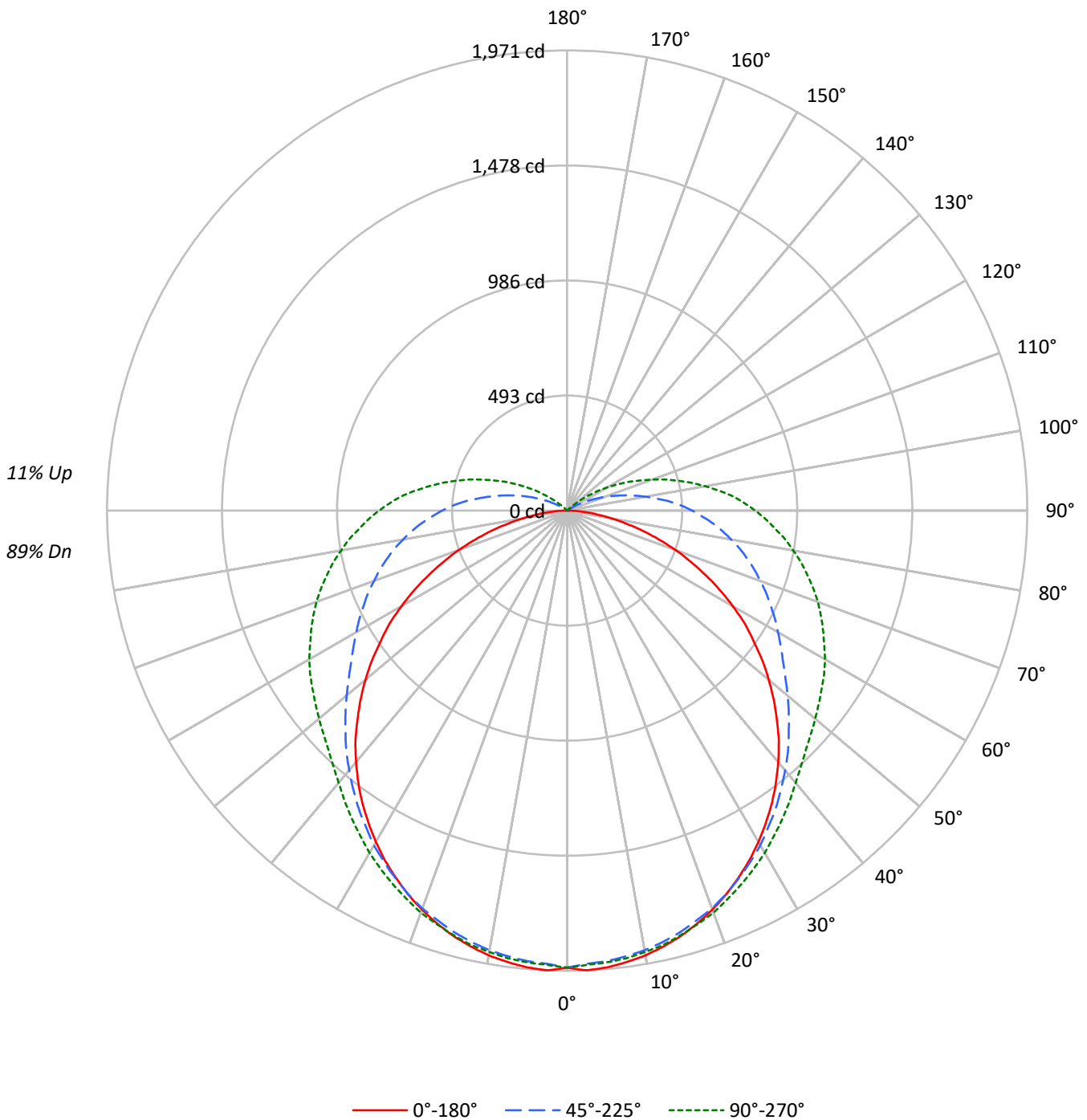
Input Watts (W): 56.6491
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	63220	63220	63220
5°	63544	50294	46645
10°	63196	41761	36922
15°	62690	35472	30378
20°	62027	30628	25647
25°	61237	26633	21959
30°	60383	23365	19073
35°	59419	20532	16693
40°	58266	18079	14729
45°	56872	15951	13216
50°	55255	14113	12083
55°	53294	12563	11166
60°	51082	11369	10389
65°	47907	10353	9648
70°	44160	9433	8996
75°	38908	8588	8344
80°	32264	7753	7718
85°	23700	6930	7094



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.2	2.4
10°-20°	530.7	6.8
20°-30°	805.8	10.4
30°-40°	979.5	12.6
40°-50°	1045.4	13.4
50°-60°	1025.3	13.2
60°-70°	936.7	12.0
70°-80°	795.0	10.2
80°-90°	618.6	8.0
90°-100°	436.2	5.6
100°-110°	259.3	3.3
110°-120°	122.7	1.6
120°-130°	35.5	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°	1521.8	19.6
0°-40°	2501.3	32.2
0°-60°	4572.0	58.8
0°-90°	6922.3	89.0
90°-120°	818.2	10.5
90°-150°	855.8	11.0
90°-180°	856.0	11.0
0°-180°	7778.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1958	1958	1958	1958	1958	
5°	1964	1957	1938	1949	1943	186
15°	1886	1882	1869	1886	1883	532
25°	1735	1736	1738	1766	1766	800
35°	1529	1537	1558	1596	1610	956
45°	1271	1293	1342	1414	1447	981
55°	975	1016	1129	1276	1331	873
65°	655	739	962	1145	1209	649
75°	336	510	799	997	1065	356
85°	79	325	626	826	895	89
90°	6	241	535	736	805	8
95°	6	162	442	638	712	5
105°	5	44	252	428	492	5
115°	4	4	103	235	290	4
125°	3	2	5	78	115	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



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1957.8	1957.8	1957.8	1957.8	1957.8
2.5°	1971.0	1963.9	1942.6	1953.7	1947.6
5°	1963.9	1956.8	1937.5	1948.7	1942.6
7.5°	1950.7	1945.6	1926.3	1938.5	1934.4
10°	1934.4	1929.4	1912.1	1926.3	1920.2
12.5°	1912.1	1907.0	1892.8	1907.0	1905.0
15°	1885.7	1881.6	1869.4	1885.7	1882.6
17.5°	1854.2	1851.2	1841.0	1861.3	1857.3
20°	1818.7	1816.6	1813.6	1831.9	1832.9
22.5°	1780.1	1780.1	1778.1	1798.4	1799.4
25°	1735.4	1736.4	1738.5	1765.9	1765.9
27.5°	1689.7	1692.8	1697.8	1724.2	1730.3
30°	1638.9	1644.0	1655.2	1683.6	1692.8
32.5°	1585.1	1593.2	1605.4	1641.0	1650.1
35°	1529.3	1537.4	1557.7	1596.3	1609.5
37.5°	1469.4	1478.5	1504.9	1548.6	1565.8
40°	1406.4	1416.6	1452.1	1506.9	1522.2
42.5°	1342.4	1356.6	1400.3	1459.2	1482.6
45°	1271.3	1292.7	1342.4	1413.5	1447.0
47.5°	1200.3	1225.7	1287.6	1374.9	1415.5
50°	1127.2	1155.6	1232.8	1340.4	1387.1
52.5°	1054.0	1085.5	1178.9	1307.9	1358.7
55°	974.8	1016.5	1129.2	1276.4	1331.3
57.5°	901.7	946.4	1084.5	1244.9	1304.9
60°	819.5	876.3	1042.9	1212.5	1275.4
62.5°	738.2	806.3	1003.3	1178.9	1240.9
65°	655.0	739.2	961.6	1145.4	1209.4
67.5°	572.7	671.2	923.0	1110.9	1176.9
70°	494.5	612.3	880.4	1075.4	1142.4
72.5°	412.3	560.5	840.8	1037.8	1104.8
75°	336.1	509.8	799.2	997.2	1065.2
77.5°	258.9	462.0	758.5	956.6	1026.6
80°	194.0	417.4	713.9	913.9	983.0
82.5°	132.0	372.7	670.2	870.2	942.3
85°	79.2	324.9	626.5	825.6	894.6
87.5°	35.5	283.3	578.8	779.9	852.0
90°	6.1	240.7	535.1	736.2	805.3
92.5°	7.1	202.1	490.5	689.5	758.5
95°	6.1	161.5	441.7	637.7	711.8
97.5°	6.1	126.9	389.9	586.9	655.0
100°	5.1	94.4	340.2	533.1	600.1
102.5°	5.1	67.0	295.5	480.3	547.3
105°	5.1	43.7	251.8	427.5	492.5
107.5°	5.1	24.4	209.2	376.7	442.7
110°	5.1	9.1	170.6	331.0	385.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	4.1	4.1	133.0	280.3	337.1
115°	4.1	4.1	102.6	234.6	290.4
117.5°	4.1	3.0	70.1	191.9	242.7
120°	4.1	3.0	43.7	153.3	197.0
122.5°	3.0	2.0	21.3	113.7	157.4
125°	3.0	2.0	5.1	78.2	114.7
127.5°	3.0	1.0	0.0	46.7	79.2
130°	2.0	1.0	0.0	22.3	46.7
132.5°	2.0	1.0	0.0	4.1	20.3
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)