

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: P289807

Luminaire Tested: **8SSRK-TS-10-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289807
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-10-L950-CD1-U
Description: 10000 LUMEN, 8 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: 8599.4 lumens
Efficiency: N/A
Efficacy: 119.6 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

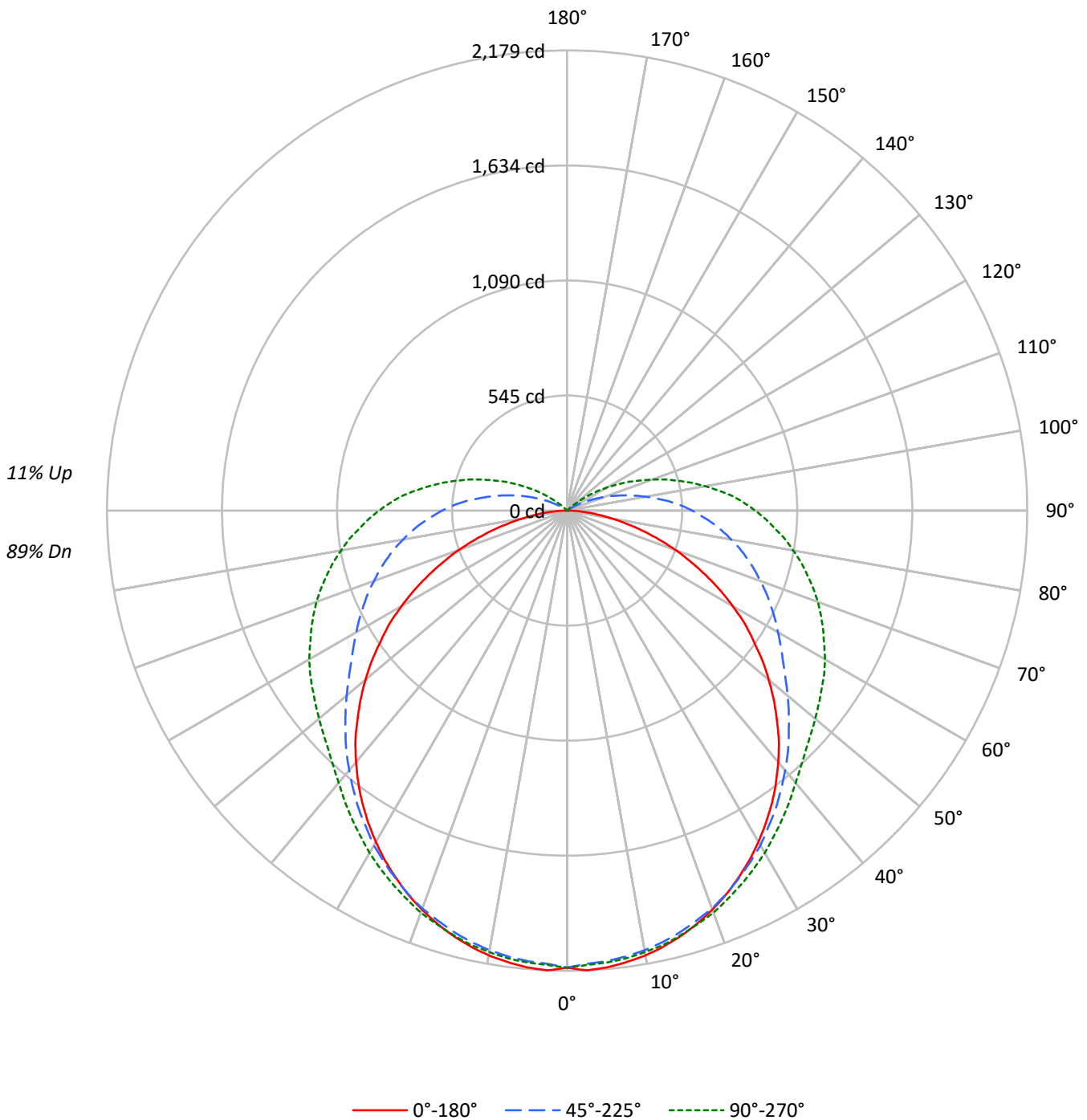
Input Watts (W): 71.9151
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	69895	69895	69895
5°	70251	55602	51570
10°	69871	46171	40821
15°	69309	39218	33586
20°	68575	33862	28354
25°	67701	29444	24277
30°	66761	25831	21086
35°	65690	22700	18455
40°	64418	19988	16284
45°	62880	17636	14612
50°	61088	15602	13359
55°	58925	13889	12344
60°	56474	12569	11487
65°	52961	11446	10667
70°	48822	10429	9945
75°	43018	9494	9225
80°	35657	8570	8532
85°	26214	7662	7844



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.8	2.4
10°-20°	586.7	6.8
20°-30°	890.9	10.4
30°-40°	1083.0	12.6
40°-50°	1155.8	13.4
50°-60°	1133.5	13.2
60°-70°	1035.6	12.0
70°-80°	878.9	10.2
80°-90°	684.0	8.0
90°-100°	482.2	5.6
100°-110°	286.7	3.3
110°-120°	135.7	1.6
120°-130°	39.3	0.5
130°-140°	2.3	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°	1682.4	19.6
0°-40°	2765.4	32.2
0°-60°	5054.7	58.8
0°-90°	7653.2	89.0
90°-120°	904.6	10.5
90°-150°	946.1	11.0
90°-180°	946.0	11.0
0°-180°	8599.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2164	2164	2164	2164	2164	
5°	2171	2163	2142	2154	2148	206
15°	2085	2080	2067	2085	2081	588
25°	1919	1920	1922	1952	1952	884
35°	1691	1700	1722	1765	1779	1057
45°	1406	1429	1484	1563	1600	1084
55°	1078	1124	1248	1411	1472	965
65°	724	817	1063	1266	1337	717
75°	372	564	884	1102	1178	394
85°	88	359	693	913	989	98
90°	7	266	592	814	890	8
95°	7	178	488	705	787	5
105°	6	48	278	473	544	6
115°	4	4	113	259	321	5
125°	3	2	6	86	127	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°	2164.5	2164.5	2164.5	2164.5	2164.5
2.5°	2179.1	2171.2	2147.7	2160.0	2153.3
5°	2171.2	2163.4	2142.0	2154.4	2147.7
7.5°	2156.6	2151.0	2129.7	2143.2	2138.7
10°	2138.7	2133.1	2114.0	2129.7	2123.0
12.5°	2114.0	2108.4	2092.6	2108.4	2106.1
15°	2084.8	2080.3	2066.8	2084.8	2081.4
17.5°	2050.0	2046.6	2035.4	2057.8	2053.3
20°	2010.7	2008.4	2005.1	2025.3	2026.4
22.5°	1968.0	1968.0	1965.8	1988.2	1989.4
25°	1918.6	1919.7	1922.0	1952.3	1952.3
27.5°	1868.1	1871.5	1877.1	1906.3	1913.0
30°	1812.0	1817.6	1829.9	1861.4	1871.5
32.5°	1752.5	1761.5	1774.9	1814.2	1824.3
35°	1690.7	1699.7	1722.2	1764.8	1779.4
37.5°	1624.5	1634.6	1663.8	1712.1	1731.1
40°	1554.9	1566.1	1605.4	1666.0	1682.9
42.5°	1484.2	1499.9	1548.1	1613.3	1639.1
45°	1405.6	1429.1	1484.2	1562.7	1599.8
47.5°	1327.0	1355.1	1423.5	1520.1	1565.0
50°	1246.2	1277.6	1362.9	1481.9	1533.6
52.5°	1165.3	1200.1	1303.4	1446.0	1502.1
55°	1077.8	1123.8	1248.4	1411.2	1471.8
57.5°	996.9	1046.3	1199.0	1376.4	1442.6
60°	906.0	968.9	1153.0	1340.5	1410.1
62.5°	816.2	891.4	1109.2	1303.4	1371.9
65°	724.1	817.3	1063.2	1266.4	1337.1
67.5°	633.2	742.1	1020.5	1228.2	1301.2
70°	546.7	677.0	973.3	1188.9	1263.0
72.5°	455.8	619.7	929.6	1147.4	1221.5
75°	371.6	563.6	883.5	1102.5	1177.7
77.5°	286.3	510.8	838.6	1057.5	1135.0
80°	214.4	461.4	789.2	1010.4	1086.7
82.5°	145.9	412.0	741.0	962.1	1041.8
85°	87.6	359.3	692.7	912.7	989.1
87.5°	39.3	313.2	639.9	862.2	941.9
90°	6.7	266.1	591.6	813.9	890.3
92.5°	7.9	223.4	542.2	762.3	838.6
95°	6.7	178.5	488.4	705.0	787.0
97.5°	6.7	140.3	431.1	648.9	724.1
100°	5.6	104.4	376.1	589.4	663.5
102.5°	5.6	74.1	326.7	531.0	605.1
105°	5.6	48.3	278.4	472.6	544.5
107.5°	5.6	26.9	231.3	416.5	489.5
110°	5.6	10.1	188.6	366.0	426.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	4.5	4.5	147.1	309.9	372.7
115°	4.5	4.5	113.4	259.3	321.1
117.5°	4.5	3.4	77.5	212.2	268.3
120°	4.5	3.4	48.3	169.5	217.8
122.5°	3.4	2.2	23.6	125.7	174.0
125°	3.4	2.2	5.6	86.4	126.9
127.5°	3.4	1.1	0.0	51.6	87.6
130°	2.2	1.1	0.0	24.7	51.6
132.5°	2.2	1.1	0.0	4.5	22.5
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)