

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: P289815

Luminaire Tested: **8SSRK-TS-12-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289815
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-12-L950-CD1-U
Description: 12000 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: 9549.1 lumens
Efficiency: N/A
Efficacy: 118.0 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

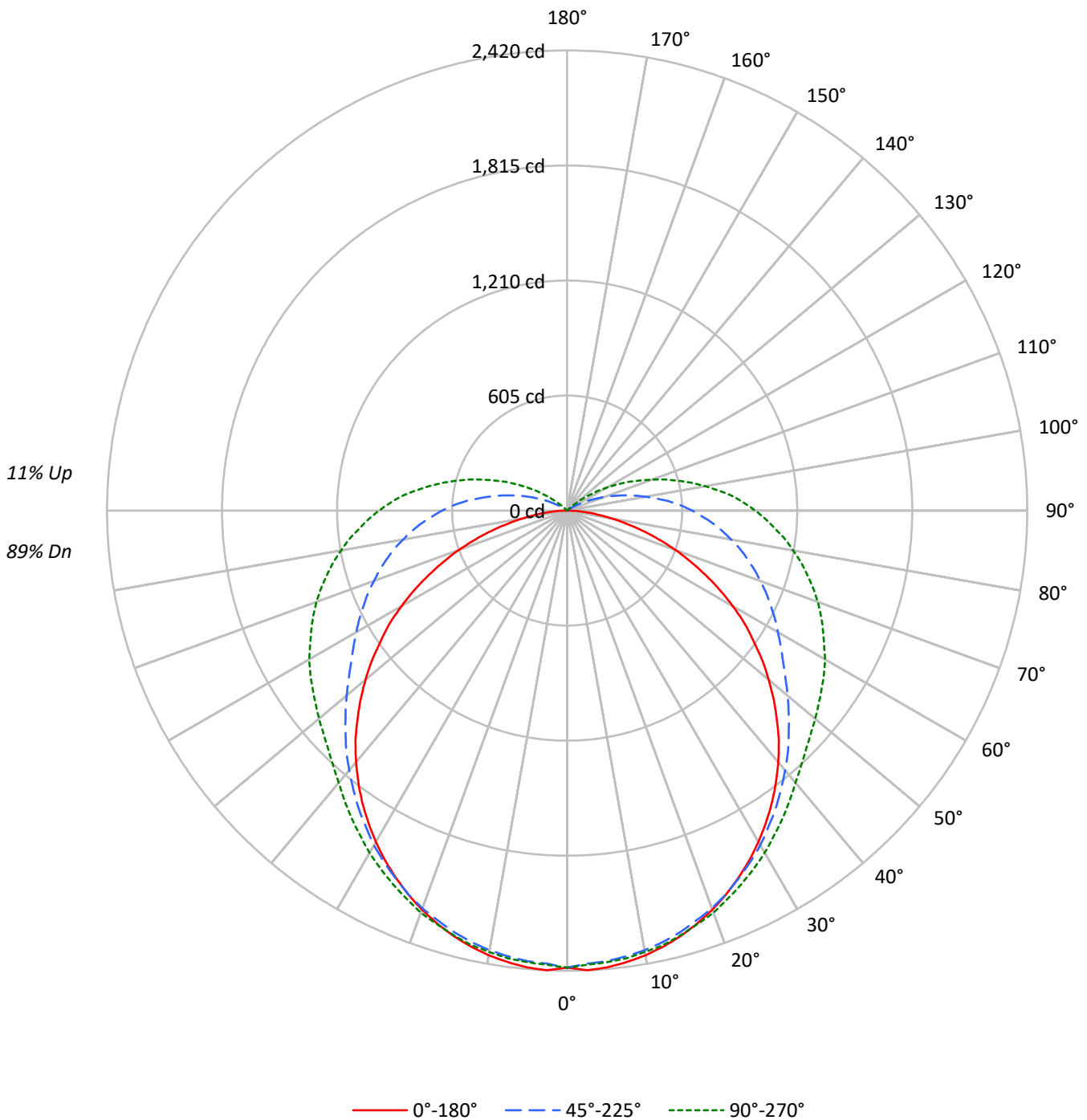
Input Watts (W): 80.8951
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	77616	77616	77616
5°	78010	61744	57266
10°	77587	51271	45328
15°	76962	43550	37295
20°	76150	37601	31486
25°	75179	32696	26958
30°	74133	28685	23415
35°	72948	25207	20494
40°	71532	22196	18082
45°	69823	19584	16226
50°	67833	17325	14834
55°	65431	15423	13708
60°	62714	13957	12755
65°	58812	12710	11845
70°	54215	11582	11044
75°	47764	10543	10243
80°	39598	9517	9475
85°	29087	8508	8710



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.4	2.4
10°-20°	651.5	6.8
20°-30°	989.3	10.4
30°-40°	1202.6	12.6
40°-50°	1283.5	13.4
50°-60°	1258.7	13.2
60°-70°	1150.0	12.0
70°-80°	976.0	10.2
80°-90°	759.5	8.0
90°-100°	535.5	5.6
100°-110°	318.3	3.3
110°-120°	150.7	1.6
120°-130°	43.6	0.5
130°-140°	2.5	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°	1868.2	19.6
0°-40°	3070.8	32.2
0°-60°	5613.0	58.8
0°-90°	8498.5	89.0
90°-120°	1004.5	10.5
90°-150°	1050.6	11.0
90°-180°	1051.0	11.0
0°-180°	9549.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2404	2404	2404	2404	2404	
5°	2411	2402	2379	2392	2385	229
15°	2315	2310	2295	2315	2311	653
25°	2130	2132	2134	2168	2168	982
35°	1878	1887	1912	1960	1976	1174
45°	1561	1587	1648	1735	1776	1204
55°	1197	1248	1386	1567	1634	1072
65°	804	908	1181	1406	1485	797
75°	413	626	981	1224	1308	437
85°	97	399	769	1014	1098	109
90°	8	296	657	904	989	9
95°	8	198	542	783	874	6
105°	6	54	309	525	605	7
115°	5	5	126	288	356	5
125°	4	2	6	96	141	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°	2403.6	2403.6	2403.6	2403.6	2403.6
2.5°	2419.8	2411.0	2384.9	2398.6	2391.1
5°	2411.0	2402.3	2378.6	2392.3	2384.9
7.5°	2394.8	2388.6	2364.9	2379.9	2374.9
10°	2374.9	2368.7	2347.5	2364.9	2357.4
12.5°	2347.5	2341.2	2323.8	2341.2	2338.7
15°	2315.0	2310.1	2295.1	2315.0	2311.3
17.5°	2276.4	2272.7	2260.2	2285.1	2280.1
20°	2232.8	2230.3	2226.5	2249.0	2250.2
22.5°	2185.4	2185.4	2182.9	2207.8	2209.1
25°	2130.5	2131.8	2134.3	2167.9	2167.9
27.5°	2074.4	2078.2	2084.4	2116.8	2124.3
30°	2012.1	2018.3	2032.1	2067.0	2078.2
32.5°	1946.0	1956.0	1971.0	2014.6	2025.8
35°	1877.5	1887.4	1912.4	1959.7	1976.0
37.5°	1803.9	1815.1	1847.6	1901.2	1922.3
40°	1726.6	1739.1	1782.7	1850.0	1868.7
42.5°	1648.1	1665.5	1719.1	1791.5	1820.1
45°	1560.8	1587.0	1648.1	1735.4	1776.5
47.5°	1473.6	1504.7	1580.8	1688.0	1737.8
50°	1383.8	1418.7	1513.4	1645.6	1702.9
52.5°	1294.0	1332.7	1447.4	1605.7	1668.0
55°	1196.8	1247.9	1386.3	1567.1	1634.4
57.5°	1107.0	1161.9	1331.4	1528.4	1602.0
60°	1006.1	1075.9	1280.3	1488.5	1565.8
62.5°	906.3	989.8	1231.7	1447.4	1523.4
65°	804.1	907.6	1180.6	1406.2	1484.8
67.5°	703.1	824.0	1133.2	1363.8	1444.9
70°	607.1	751.7	1080.9	1320.2	1402.5
72.5°	506.1	688.2	1032.2	1274.1	1356.4
75°	412.6	625.8	981.1	1224.2	1307.7
77.5°	317.9	567.2	931.3	1174.4	1260.4
80°	238.1	512.4	876.4	1122.0	1206.8
82.5°	162.1	457.5	822.8	1068.4	1156.9
85°	97.2	398.9	769.2	1013.5	1098.3
87.5°	43.6	347.8	710.6	957.4	1045.9
90°	7.5	295.5	657.0	903.8	988.6
92.5°	8.7	248.1	602.1	846.5	931.3
95°	7.5	198.2	542.3	782.9	873.9
97.5°	7.5	155.8	478.7	720.6	804.1
100°	6.2	115.9	417.6	654.5	736.8
102.5°	6.2	82.3	362.8	589.7	671.9
105°	6.2	53.6	309.2	524.8	604.6
107.5°	6.2	29.9	256.8	462.5	543.5
110°	6.2	11.2	209.4	406.4	473.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	5.0	5.0	163.3	344.1	413.9
115°	5.0	5.0	125.9	288.0	356.5
117.5°	5.0	3.7	86.0	235.6	298.0
120°	5.0	3.7	53.6	188.2	241.9
122.5°	3.7	2.5	26.2	139.6	193.2
125°	3.7	2.5	6.2	96.0	140.9
127.5°	3.7	1.2	0.0	57.3	97.2
130°	2.5	1.2	0.0	27.4	57.3
132.5°	2.5	1.2	0.0	5.0	24.9
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°	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)