

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: P289810

Luminaire Tested: **8SSRK-TS-10-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289810
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-L840-CD1-U
Description: 10000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH TRILOBE SMOOTH LENS AND 80 CRI 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9544.2 lumens
Efficiency: N/A
Efficacy: 132.7 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

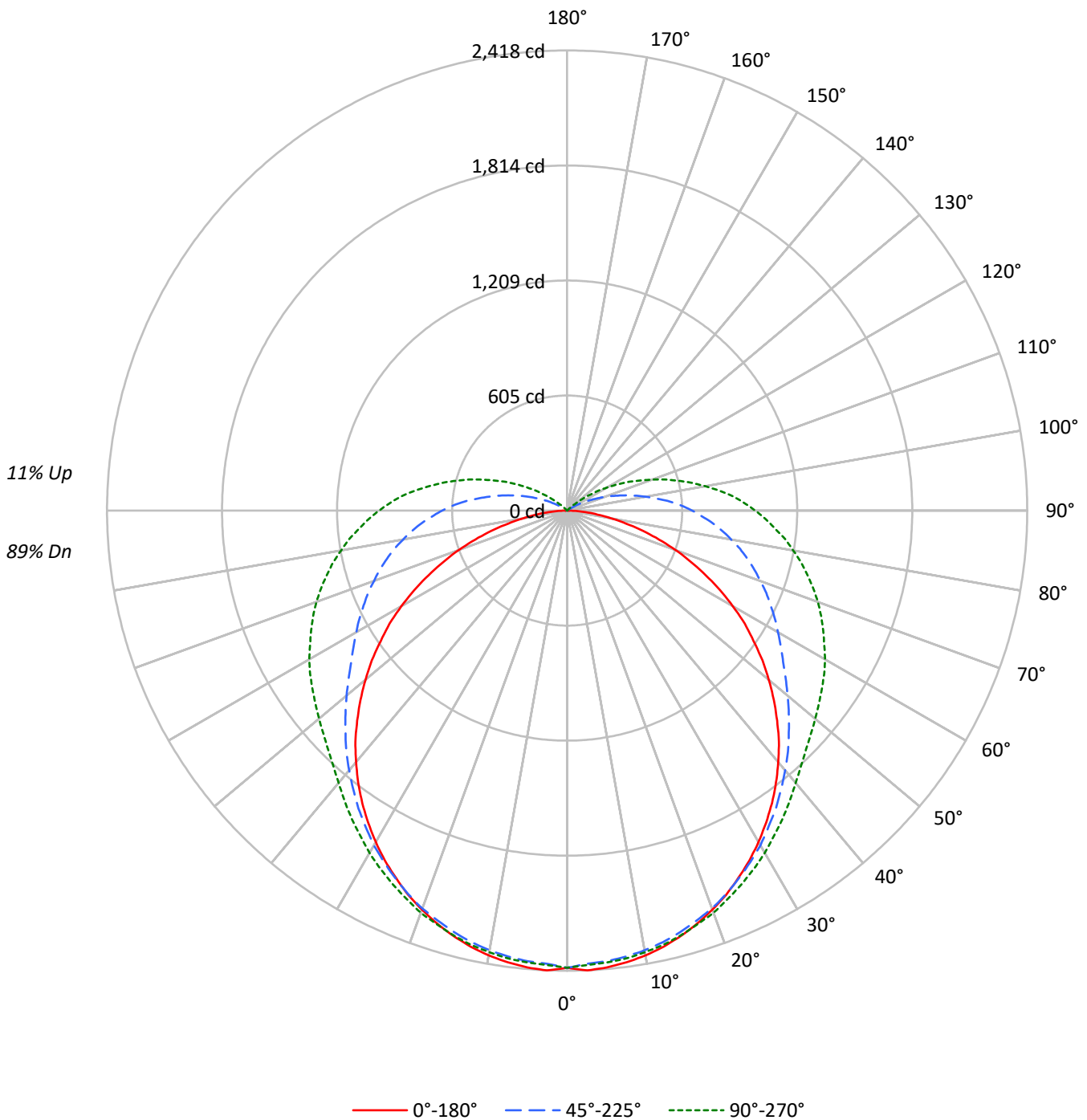
Input Watts (W): 71.9151
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	77574	77574	77574
5°	77971	61712	57235
10°	77548	51242	45305
15°	76926	43527	37276
20°	76109	37582	31471
25°	75140	32680	26945
30°	74097	28669	23403
35°	72909	25194	20483
40°	71495	22184	18073
45°	69787	19573	16217
50°	67799	17317	14827
55°	65398	15415	13700
60°	62677	13950	12749
65°	58783	12704	11839
70°	54189	11575	11038
75°	47741	10537	10238
80°	39582	9512	9470
85°	29087	8503	8705



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.3	2.4
10°-20°	651.2	6.8
20°-30°	988.8	10.4
30°-40°	1202.0	12.6
40°-50°	1282.8	13.4
50°-60°	1258.1	13.2
60°-70°	1149.4	12.0
70°-80°	975.5	10.2
80°-90°	759.1	8.0
90°-100°	535.2	5.6
100°-110°	318.2	3.3
110°-120°	150.6	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°	1867.3	19.6
0°-40°	3069.2	32.2
0°-60°	5610.1	58.8
0°-90°	8494.1	89.0
90°-120°	1004.0	10.5
90°-150°	1050.1	11.0
90°-180°	1050.0	11.0
0°-180°	9544.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2402	2402	2402	2402	2402	
5°	2410	2401	2377	2391	2384	229
15°	2314	2309	2294	2314	2310	653
25°	2129	2131	2133	2167	2167	982
35°	1876	1886	1911	1959	1975	1173
45°	1560	1586	1647	1734	1776	1203
55°	1196	1247	1386	1566	1634	1071
65°	804	907	1180	1406	1484	796
75°	412	626	981	1224	1307	437
85°	97	399	769	1013	1098	109
90°	8	295	657	903	988	9
95°	8	198	542	782	874	6
105°	6	54	309	525	604	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°	2402.3	2402.3	2402.3	2402.3	2402.3
2.5°	2418.5	2409.8	2383.6	2397.3	2389.9
5°	2409.8	2401.1	2377.4	2391.1	2383.6
7.5°	2393.6	2387.4	2363.7	2378.6	2373.7
10°	2373.7	2367.4	2346.2	2363.7	2356.2
12.5°	2346.2	2340.0	2322.6	2340.0	2337.5
15°	2313.9	2308.9	2293.9	2313.9	2310.1
17.5°	2275.2	2271.5	2259.0	2283.9	2279.0
20°	2231.6	2229.1	2225.4	2247.8	2249.1
22.5°	2184.3	2184.3	2181.8	2206.7	2207.9
25°	2129.4	2130.7	2133.2	2166.8	2166.8
27.5°	2073.4	2077.1	2083.3	2115.7	2123.2
30°	2011.1	2017.3	2031.0	2065.9	2077.1
32.5°	1945.0	1955.0	1970.0	2013.6	2024.8
35°	1876.5	1886.5	1911.4	1958.7	1974.9
37.5°	1803.0	1814.2	1846.6	1900.2	1921.4
40°	1725.7	1738.2	1781.8	1849.1	1867.8
42.5°	1647.2	1664.7	1718.3	1790.5	1819.2
45°	1560.0	1586.2	1647.2	1734.5	1775.6
47.5°	1472.8	1503.9	1579.9	1687.1	1736.9
50°	1383.1	1418.0	1512.7	1644.7	1702.1
52.5°	1293.4	1332.0	1446.6	1604.9	1667.2
55°	1196.2	1247.3	1385.6	1566.2	1633.5
57.5°	1106.5	1161.3	1330.7	1527.6	1601.1
60°	1005.5	1075.3	1279.7	1487.7	1565.0
62.5°	905.9	989.3	1231.1	1446.6	1522.6
65°	803.7	907.1	1180.0	1405.5	1484.0
67.5°	702.8	823.6	1132.6	1363.1	1444.1
70°	606.8	751.3	1080.3	1319.5	1401.8
72.5°	505.9	687.8	1031.7	1273.4	1355.7
75°	412.4	625.5	980.6	1223.6	1307.1
77.5°	317.7	566.9	930.8	1173.7	1259.7
80°	238.0	512.1	875.9	1121.4	1206.1
82.5°	162.0	457.3	822.4	1067.8	1156.3
85°	97.2	398.7	768.8	1013.0	1097.7
87.5°	43.6	347.6	710.2	956.9	1045.4
90°	7.5	295.3	656.7	903.4	988.1
92.5°	8.7	248.0	601.8	846.0	930.8
95°	7.5	198.1	542.0	782.5	873.5
97.5°	7.5	155.8	478.5	720.2	803.7
100°	6.2	115.9	417.4	654.2	736.4
102.5°	6.2	82.2	362.6	589.4	671.6
105°	6.2	53.6	309.0	524.6	604.3
107.5°	6.2	29.9	256.7	462.3	543.3
110°	6.2	11.2	209.3	406.2	473.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	5.0	5.0	163.2	343.9	413.7
115°	5.0	5.0	125.8	287.8	356.4
117.5°	5.0	3.7	86.0	235.5	297.8
120°	5.0	3.7	53.6	188.1	241.7
122.5°	3.7	2.5	26.2	139.6	193.1
125°	3.7	2.5	6.2	95.9	140.8
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)