

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: P289814

Luminaire Tested: **8SSRK-TS-12-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289814
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-L940-CD1-U
Description: 12000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH TRILOBE SMOOTH LENS AND 90 CRI 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8966.2 lumens
Efficiency: N/A
Efficacy: 110.8 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

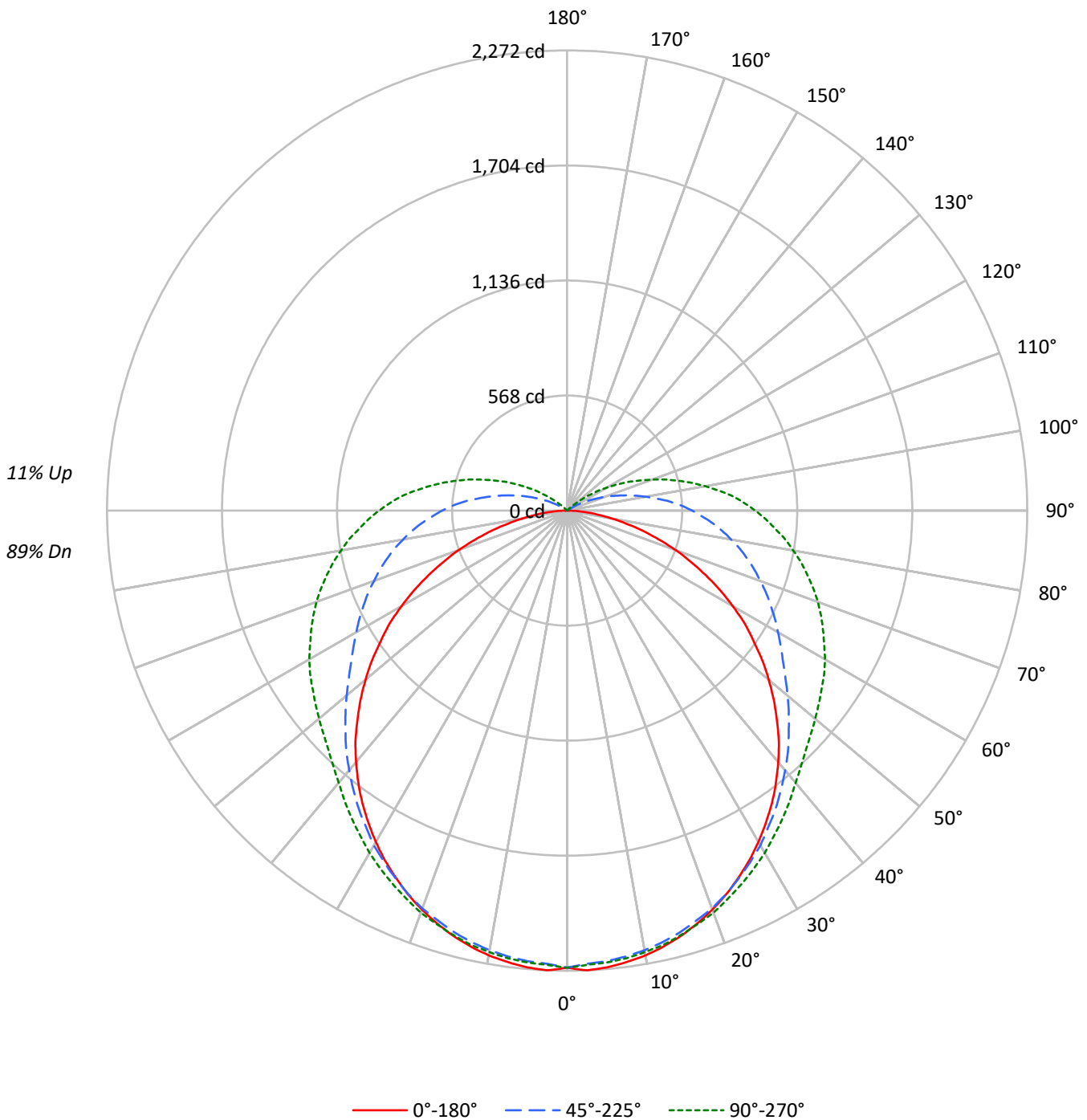
Input Watts (W): 80.8951
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	72875	72875	72875
5°	73250	57975	53770
10°	72850	48141	42561
15°	72265	40891	35019
20°	71502	35306	29565
25°	70591	30700	25313
30°	69609	26933	21985
35°	68495	23667	19242
40°	67165	20841	16979
45°	65559	18389	15235
50°	63691	16268	13929
55°	61435	14482	12871
60°	58880	13105	11976
65°	55221	11934	11121
70°	50911	10875	10370
75°	44859	9899	9618
80°	37187	8936	8896
85°	27321	7988	8179



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.5	2.4
10°-20°	611.7	6.8
20°-30°	928.9	10.4
30°-40°	1129.2	12.6
40°-50°	1205.1	13.4
50°-60°	1181.9	13.2
60°-70°	1079.8	12.0
70°-80°	916.4	10.2
80°-90°	713.2	8.0
90°-100°	502.8	5.6
100°-110°	298.9	3.3
110°-120°	141.5	1.6
120°-130°	41.0	0.5
130°-140°	2.4	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°	1754.2	19.6
0°-40°	2883.4	32.2
0°-60°	5270.4	58.8
0°-90°	7979.7	89.0
90°-120°	943.2	10.5
90°-150°	986.5	11.0
90°-180°	987.0	11.0
0°-180°	8966.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2257	2257	2257	2257	2257	
5°	2264	2256	2233	2246	2239	215
15°	2174	2169	2155	2174	2170	613
25°	2000	2002	2004	2036	2036	922
35°	1763	1772	1796	1840	1855	1102
45°	1466	1490	1548	1629	1668	1131
55°	1124	1172	1302	1471	1535	1006
65°	755	852	1108	1320	1394	748
75°	388	588	921	1150	1228	411
85°	91	375	722	952	1031	102
90°	7	277	617	849	928	9
95°	7	186	509	735	821	6
105°	6	50	290	493	568	6
115°	5	5	118	270	335	5
125°	4	2	6	90	132	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°	2256.8	2256.8	2256.8	2256.8	2256.8
2.5°	2272.1	2263.9	2239.3	2252.2	2245.1
5°	2263.9	2255.7	2233.4	2246.3	2239.3
7.5°	2248.6	2242.8	2220.6	2234.6	2229.9
10°	2229.9	2224.1	2204.2	2220.6	2213.5
12.5°	2204.2	2198.3	2181.9	2198.3	2196.0
15°	2173.7	2169.0	2155.0	2173.7	2170.2
17.5°	2137.4	2133.9	2122.2	2145.6	2141.0
20°	2096.5	2094.1	2090.6	2111.7	2112.9
22.5°	2052.0	2052.0	2049.7	2073.1	2074.2
25°	2000.5	2001.7	2004.0	2035.6	2035.6
27.5°	1947.8	1951.3	1957.2	1987.6	1994.6
30°	1889.3	1895.1	1908.0	1940.8	1951.3
32.5°	1827.2	1836.6	1850.7	1891.6	1902.2
35°	1762.9	1772.2	1795.6	1840.1	1855.3
37.5°	1693.8	1704.3	1734.8	1785.1	1805.0
40°	1621.2	1632.9	1673.9	1737.1	1754.7
42.5°	1547.5	1563.9	1614.2	1682.1	1709.0
45°	1465.5	1490.1	1547.5	1629.4	1668.0
47.5°	1383.6	1412.9	1484.3	1584.9	1631.8
50°	1299.3	1332.1	1421.1	1545.1	1599.0
52.5°	1215.0	1251.3	1359.0	1507.7	1566.2
55°	1123.7	1171.7	1301.7	1471.4	1534.6
57.5°	1039.5	1091.0	1250.2	1435.1	1504.2
60°	944.6	1010.2	1202.2	1397.6	1470.2
62.5°	851.0	929.4	1156.5	1359.0	1430.4
65°	755.0	852.2	1108.5	1320.4	1394.1
67.5°	660.2	773.7	1064.0	1280.6	1356.7
70°	570.1	705.8	1014.9	1239.6	1316.9
72.5°	475.2	646.1	969.2	1196.3	1273.6
75°	387.5	587.6	921.2	1149.5	1227.9
77.5°	298.5	532.6	874.4	1102.7	1183.4
80°	223.6	481.1	822.9	1053.5	1133.1
82.5°	152.2	429.6	772.6	1003.2	1086.3
85°	91.3	374.6	722.2	951.7	1031.3
87.5°	41.0	326.6	667.2	899.0	982.1
90°	7.0	277.4	616.9	848.7	928.3
92.5°	8.2	232.9	565.4	794.8	874.4
95°	7.0	186.1	509.2	735.1	820.6
97.5°	7.0	146.3	449.5	676.6	755.0
100°	5.9	108.9	392.1	614.5	691.8
102.5°	5.9	77.3	340.6	553.7	630.9
105°	5.9	50.3	290.3	492.8	567.7
107.5°	5.9	28.1	241.1	434.3	510.4
110°	5.9	10.5	196.7	381.6	444.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	4.7	4.7	153.3	323.1	388.6
115°	4.7	4.7	118.2	270.4	334.8
117.5°	4.7	3.5	80.8	221.2	279.8
120°	4.7	3.5	50.3	176.8	227.1
122.5°	3.5	2.3	24.6	131.1	181.4
125°	3.5	2.3	5.9	90.1	132.3
127.5°	3.5	1.2	0.0	53.8	91.3
130°	2.3	1.2	0.0	25.8	53.8
132.5°	2.3	1.2	0.0	4.7	23.4
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)