

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: P289813

Luminaire Tested: **8SSRK-TS-12-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289813
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-L935-CD1-U
Description: 12000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH TRILOBE SMOOTH LENS AND 90 CRI 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8754.2 lumens
Efficiency: N/A
Efficacy: 108.2 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

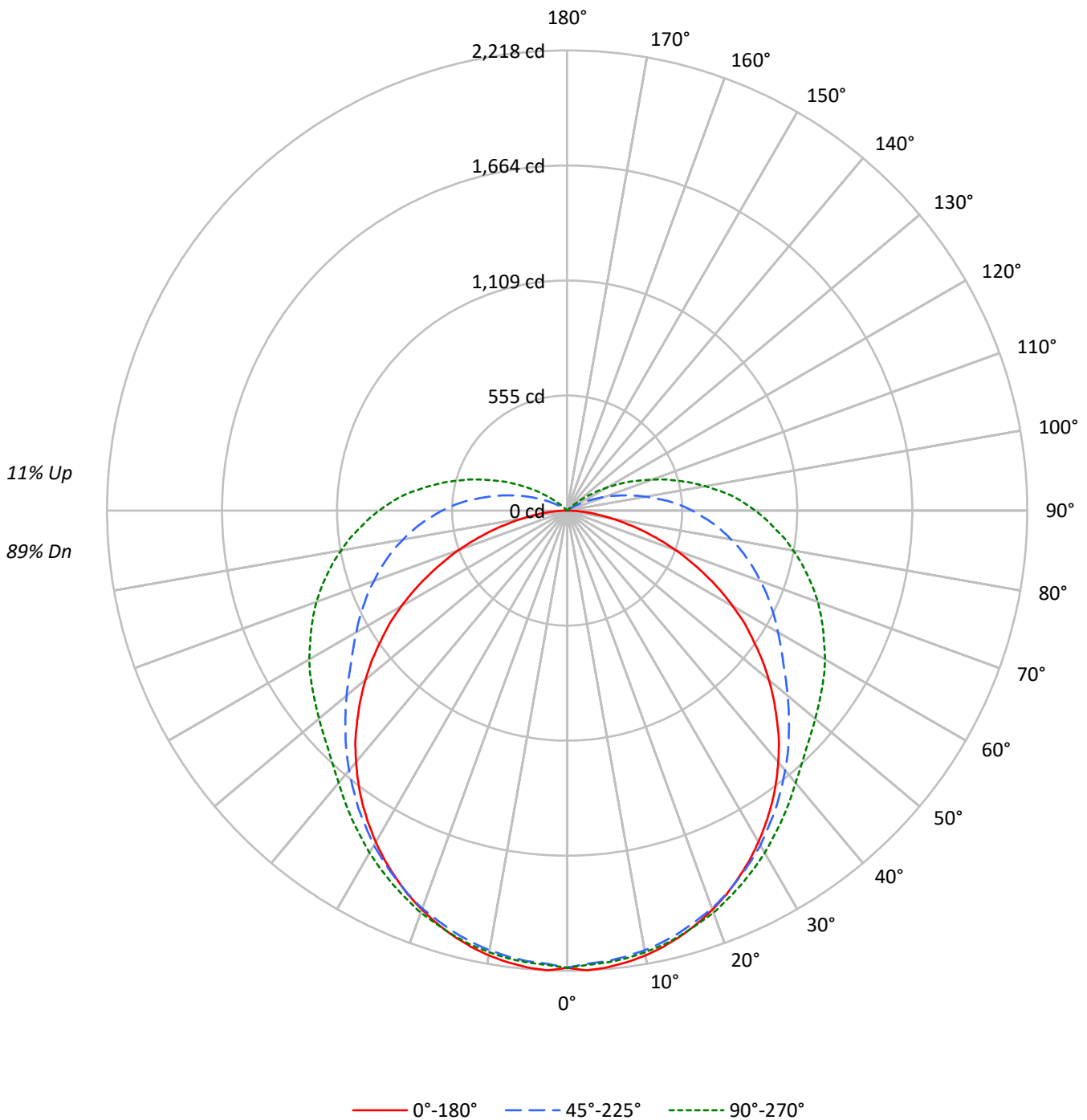
Input Watts (W): 80.8951
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	71154	71154	71154
5°	71516	56604	52497
10°	71128	47001	41556
15°	70556	39924	34191
20°	69810	34472	28865
25°	68922	29974	24715
30°	67962	26297	21466
35°	66875	23108	18788
40°	65578	20348	16577
45°	64011	17954	14875
50°	62186	15884	13600
55°	59986	14139	12566
60°	57490	12795	11694
65°	53919	11652	10859
70°	49706	10617	10124
75°	43793	9665	9391
80°	36305	8724	8686
85°	26663	7800	7985



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.5	2.4
10°-20°	597.3	6.8
20°-30°	907.0	10.4
30°-40°	1102.5	12.6
40°-50°	1176.6	13.4
50°-60°	1153.9	13.2
60°-70°	1054.3	12.0
70°-80°	894.7	10.2
80°-90°	696.3	8.0
90°-100°	490.9	5.6
100°-110°	291.8	3.3
110°-120°	138.1	1.6
120°-130°	40.0	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°	1712.7	19.6
0°-40°	2815.2	32.2
0°-60°	5145.7	58.8
0°-90°	7791.0	89.0
90°-120°	920.9	10.5
90°-150°	963.2	11.0
90°-180°	963.0	11.0
0°-180°	8754.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2204	2204	2204	2204	2204	
5°	2210	2202	2181	2193	2186	210
15°	2122	2118	2104	2122	2119	599
25°	1953	1954	1957	1988	1988	900
35°	1721	1730	1753	1797	1812	1076
45°	1431	1455	1511	1591	1629	1104
55°	1097	1144	1271	1437	1498	983
65°	737	832	1082	1289	1361	730
75°	378	574	899	1122	1199	401
85°	89	366	705	929	1007	100
90°	7	271	602	829	906	8
95°	7	182	497	718	801	6
105°	6	49	283	481	554	6
115°	5	5	115	264	327	5
125°	3	2	6	88	129	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°	2203.5	2203.5	2203.5	2203.5	2203.5
2.5°	2218.3	2210.3	2186.3	2198.9	2192.0
5°	2210.3	2202.3	2180.6	2193.2	2186.3
7.5°	2195.5	2189.8	2168.0	2181.8	2177.2
10°	2177.2	2171.5	2152.0	2168.0	2161.2
12.5°	2152.0	2146.3	2130.3	2146.3	2144.0
15°	2122.3	2117.8	2104.0	2122.3	2118.9
17.5°	2086.9	2083.5	2072.0	2094.9	2090.3
20°	2046.9	2044.6	2041.2	2061.8	2062.9
22.5°	2003.5	2003.5	2001.2	2024.0	2025.2
25°	1953.2	1954.3	1956.6	1987.5	1987.5
27.5°	1901.7	1905.2	1910.9	1940.6	1947.5
30°	1844.6	1850.3	1862.9	1894.9	1905.2
32.5°	1784.0	1793.2	1806.9	1846.9	1857.2
35°	1721.2	1730.3	1753.2	1796.6	1811.5
37.5°	1653.7	1664.0	1693.7	1742.9	1762.3
40°	1582.9	1594.3	1634.3	1696.0	1713.2
42.5°	1510.9	1526.9	1576.0	1642.3	1668.6
45°	1430.9	1454.9	1510.9	1590.9	1628.6
47.5°	1350.9	1379.5	1449.2	1547.5	1593.2
50°	1268.6	1300.6	1387.5	1508.6	1561.2
52.5°	1186.3	1221.7	1326.9	1472.0	1529.2
55°	1097.2	1144.0	1270.9	1436.6	1498.3
57.5°	1014.9	1065.2	1220.6	1401.2	1468.6
60°	922.3	986.3	1173.7	1364.6	1435.5
62.5°	830.9	907.4	1129.2	1326.9	1396.6
65°	737.2	832.0	1082.3	1289.2	1361.2
67.5°	644.6	755.4	1038.9	1250.3	1324.6
70°	556.6	689.2	990.9	1210.3	1285.7
72.5°	464.0	630.9	946.3	1168.0	1243.5
75°	378.3	573.7	899.4	1122.3	1198.9
77.5°	291.4	520.0	853.7	1076.6	1155.4
80°	218.3	469.7	803.4	1028.6	1106.3
82.5°	148.6	419.4	754.3	979.4	1060.6
85°	89.1	365.7	705.2	929.2	1006.9
87.5°	40.0	318.9	651.4	877.7	958.9
90°	6.9	270.9	602.3	828.6	906.3
92.5°	8.0	227.4	552.0	776.0	853.7
95°	6.9	181.7	497.2	717.7	801.2
97.5°	6.9	142.9	438.9	660.6	737.2
100°	5.7	106.3	382.9	600.0	675.4
102.5°	5.7	75.4	332.6	540.6	616.0
105°	5.7	49.1	283.4	481.2	554.3
107.5°	5.7	27.4	235.4	424.0	498.3
110°	5.7	10.3	192.0	372.6	434.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	4.6	4.6	149.7	315.4	379.4
115°	4.6	4.6	115.4	264.0	326.9
117.5°	4.6	3.4	78.9	216.0	273.1
120°	4.6	3.4	49.1	172.6	221.7
122.5°	3.4	2.3	24.0	128.0	177.1
125°	3.4	2.3	5.7	88.0	129.1
127.5°	3.4	1.1	0.0	52.6	89.1
130°	2.3	1.1	0.0	25.1	52.6
132.5°	2.3	1.1	0.0	4.6	22.9
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)