

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: P289806

Luminaire Tested: **8SSRK-TS-10-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289806
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-L940-CD1-U
Description: 10000 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: 8074.4 lumens
Efficiency: N/A
Efficacy: 112.3 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

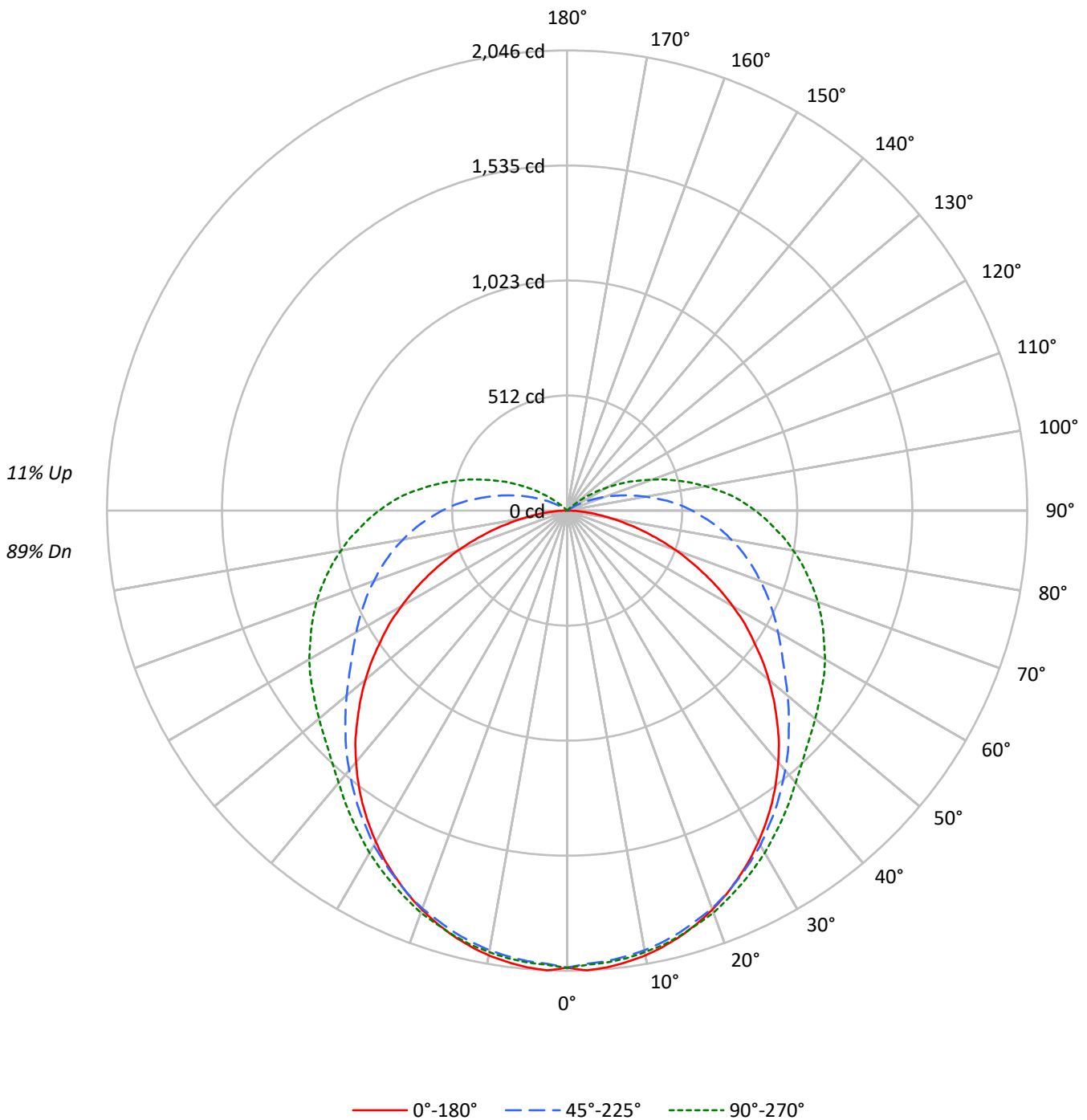
Input Watts (W): 71.9151
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	65629	65629	65629
5°	65964	52209	48422
10°	65604	43351	38329
15°	65077	36825	31536
20°	64387	31795	26624
25°	63569	27647	22795
30°	62686	24254	19798
35°	61680	21313	17329
40°	60487	18768	15289
45°	59041	16560	13719
50°	57358	14650	12543
55°	55328	13041	11591
60°	53027	11801	10785
65°	49728	10748	10016
70°	45848	9792	9338
75°	40390	8915	8662
80°	33478	8048	8012
85°	24598	7194	7365



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.3	2.4
10°-20°	550.9	6.8
20°-30°	836.5	10.4
30°-40°	1016.8	12.6
40°-50°	1085.2	13.4
50°-60°	1064.3	13.2
60°-70°	972.4	12.0
70°-80°	825.3	10.2
80°-90°	642.2	8.0
90°-100°	452.8	5.6
100°-110°	269.2	3.3
110°-120°	127.4	1.6
120°-130°	36.9	0.5
130°-140°	2.1	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°	1579.7	19.6
0°-40°	2596.6	32.2
0°-60°	4746.1	58.8
0°-90°	7186.0	89.0
90°-120°	849.4	10.5
90°-150°	888.4	11.0
90°-180°	888.0	11.0
0°-180°	8074.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2032	2032	2032	2032	2032	
5°	2039	2031	2011	2023	2017	194
15°	1958	1953	1941	1958	1954	552
25°	1802	1803	1805	1833	1833	830
35°	1588	1596	1617	1657	1671	993
45°	1320	1342	1394	1467	1502	1018
55°	1012	1055	1172	1325	1382	906
65°	680	767	998	1189	1256	674
75°	349	529	830	1035	1106	370
85°	82	337	650	857	929	92
90°	6	250	556	764	836	8
95°	6	168	458	662	739	5
105°	5	45	261	444	511	6
115°	4	4	106	244	302	4
125°	3	2	5	81	119	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°	2032.4	2032.4	2032.4	2032.4	2032.4
2.5°	2046.1	2038.7	2016.6	2028.1	2021.8
5°	2038.7	2031.3	2011.3	2022.9	2016.6
7.5°	2025.0	2019.7	1999.7	2012.3	2008.1
10°	2008.1	2002.8	1984.9	1999.7	1993.4
12.5°	1984.9	1979.7	1964.9	1979.7	1977.5
15°	1957.5	1953.3	1940.7	1957.5	1954.4
17.5°	1924.8	1921.7	1911.1	1932.2	1928.0
20°	1887.9	1885.8	1882.7	1901.7	1902.7
22.5°	1847.9	1847.9	1845.8	1866.9	1867.9
25°	1801.5	1802.6	1804.7	1833.1	1833.1
27.5°	1754.1	1757.2	1762.5	1789.9	1796.2
30°	1701.4	1706.6	1718.2	1747.7	1757.2
32.5°	1645.5	1653.9	1666.6	1703.5	1713.0
35°	1587.5	1596.0	1617.0	1657.1	1670.8
37.5°	1525.3	1534.8	1562.2	1607.5	1625.5
40°	1460.0	1470.5	1507.4	1564.3	1580.1
42.5°	1393.6	1408.3	1453.6	1514.8	1539.0
45°	1319.8	1341.9	1393.6	1467.3	1502.1
47.5°	1246.0	1272.3	1336.6	1427.3	1469.5
50°	1170.1	1199.6	1279.7	1391.5	1439.9
52.5°	1094.2	1126.9	1223.8	1357.7	1410.4
55°	1012.0	1055.2	1172.2	1325.0	1382.0
57.5°	936.1	982.4	1125.8	1292.4	1354.6
60°	850.7	909.7	1082.6	1258.6	1324.0
62.5°	766.4	837.0	1041.5	1223.8	1288.1
65°	679.9	767.4	998.3	1189.1	1255.5
67.5°	594.5	696.8	958.2	1153.2	1221.7
70°	513.4	635.6	913.9	1116.3	1185.9
72.5°	428.0	581.9	872.8	1077.3	1146.9
75°	348.9	529.2	829.6	1035.2	1105.8
77.5°	268.8	479.6	787.4	993.0	1065.7
80°	201.3	433.2	741.1	948.7	1020.4
82.5°	137.0	386.9	695.7	903.4	978.2
85°	82.2	337.3	650.4	857.0	928.7
87.5°	36.9	294.1	600.9	809.6	884.4
90°	6.3	249.8	555.5	764.2	835.9
92.5°	7.4	209.8	509.1	715.8	787.4
95°	6.3	167.6	458.5	662.0	738.9
97.5°	6.3	131.8	404.8	609.3	679.9
100°	5.3	98.0	353.1	553.4	623.0
102.5°	5.3	69.6	306.8	498.6	568.2
105°	5.3	45.3	261.4	443.8	511.3
107.5°	5.3	25.3	217.2	391.1	459.6
110°	5.3	9.5	177.1	343.6	400.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	4.2	4.2	138.1	290.9	350.0
115°	4.2	4.2	106.5	243.5	301.5
117.5°	4.2	3.2	72.7	199.2	251.9
120°	4.2	3.2	45.3	159.2	204.5
122.5°	3.2	2.1	22.1	118.1	163.4
125°	3.2	2.1	5.3	81.2	119.1
127.5°	3.2	1.1	0.0	48.5	82.2
130°	2.1	1.1	0.0	23.2	48.5
132.5°	2.1	1.1	0.0	4.2	21.1
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)