

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: P289643

Luminaire Tested: **8SSRK-TB-80-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289643
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SSRK-TB-80-L940-CD1-U
Description: 8000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH TRILOBE RIBBED LENS AND 90 CRI 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6909.3 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.08 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')
CIE Type: Direct

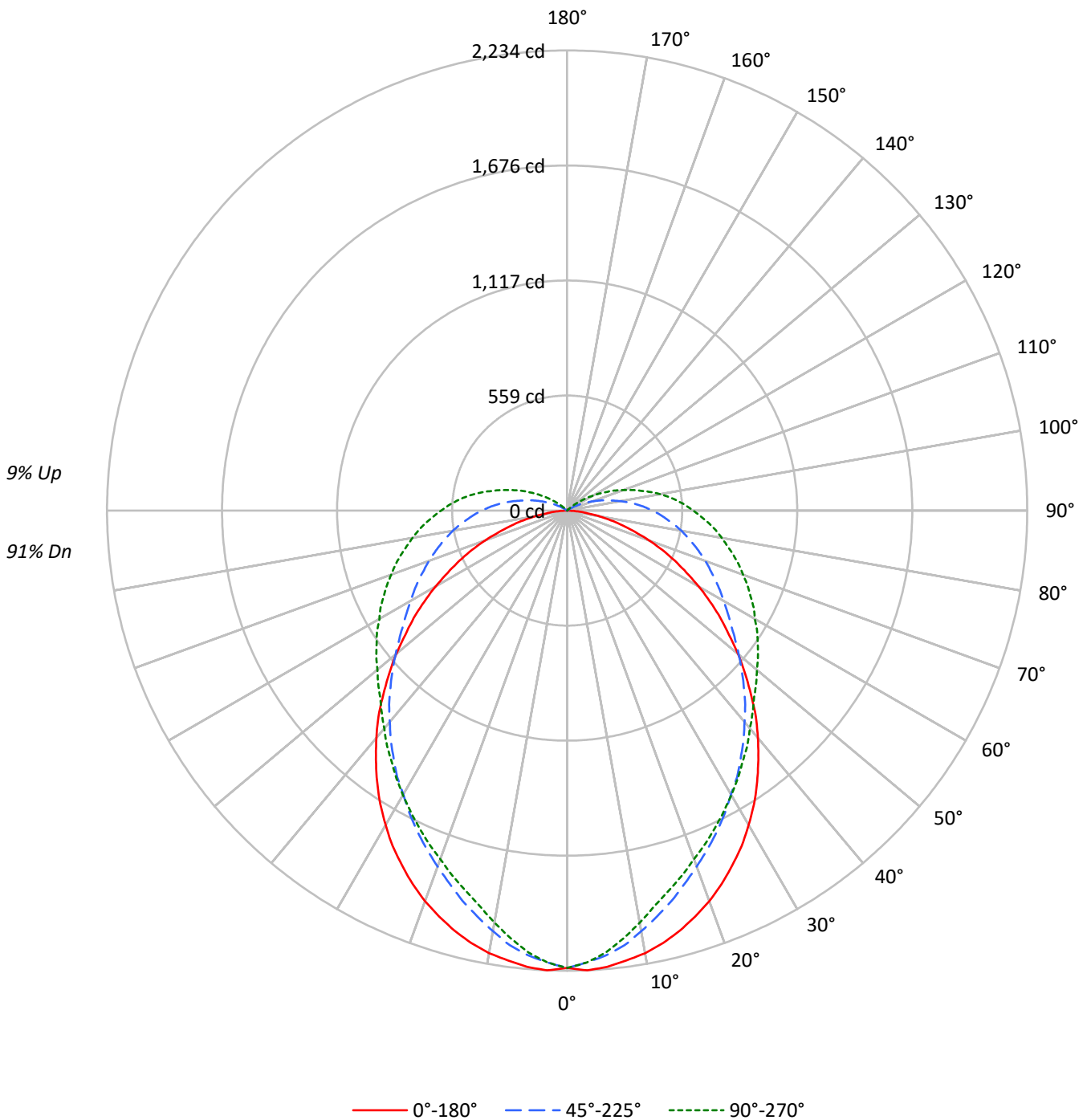
Input Watts (W): 56.6491
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	91
1	104	98	93	89	100	95	90	86	89	85	82	84	80	78	78	76	74	71
2	94	85	77	71	90	82	75	69	77	71	66	72	67	63	68	64	60	58
3	85	74	65	58	82	72	64	57	67	60	55	63	58	53	60	55	51	48
4	78	65	56	49	75	63	55	48	60	52	47	56	50	45	53	48	43	41
5	72	58	49	42	69	57	48	41	53	46	40	50	44	39	48	42	38	35
6	66	53	43	37	64	51	42	36	48	41	35	46	39	34	43	38	33	31
7	61	48	39	32	59	46	38	32	44	37	31	42	35	30	40	34	29	27
8	57	44	35	29	55	42	34	29	40	33	28	38	32	27	36	31	26	24
9	54	40	32	26	52	39	31	26	37	30	25	35	29	24	34	28	24	22
10	50	37	29	24	48	36	28	23	34	28	23	33	27	22	31	26	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	71697	71697	71697
5°	71953	56272	51717
10°	71279	45284	39060
15°	70210	37220	30805
20°	68807	31059	25196
25°	66996	26354	21131
30°	64926	22457	17964
35°	62493	19356	15412
40°	59679	16673	13364
45°	56465	14417	11720
50°	53132	12448	10478
55°	49702	10814	9472
60°	45990	9567	8573
65°	42195	8545	7838
70°	37784	7643	7159
75°	32379	6839	6546
80°	26160	6113	5984
85°	17775	5376	5462



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.6	3.0
10°-20°	560.2	8.1
20°-30°	810.6	11.7
30°-40°	942.9	13.6
40°-50°	959.7	13.9
50°-60°	893.0	12.9
60°-70°	777.6	11.3
70°-80°	633.0	9.2
80°-90°	479.5	6.9
90°-100°	332.5	4.8
100°-110°	195.4	2.8
110°-120°	91.6	1.3
120°-130°	26.1	0.4
130°-140°	1.4	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°	1576.4	22.8
0°-40°	2519.2	36.5
0°-60°	4372.0	63.3
0°-90°	6262.2	90.6
90°-120°	619.6	9.0
90°-150°	647.1	9.4
90°-180°	647.0	9.4
0°-180°	6909.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2220	2220	2220	2220	2220	
5°	2224	2206	2168	2168	2154	211
15°	2112	2056	1962	1927	1909	595
25°	1899	1815	1720	1706	1699	874
35°	1608	1524	1468	1482	1486	1005
45°	1262	1213	1213	1262	1283	974
55°	909	906	972	1087	1129	812
65°	577	626	794	934	982	572
75°	280	409	636	783	836	299
85°	59	255	486	640	689	68
90°	0	185	413	563	612	3
95°	0	119	339	490	538	0
105°	0	28	192	325	371	0
115°	0	0	77	178	217	0
125°	0	0	4	59	87	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	4	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°	2220.3	2220.3	2220.3	2220.3	2220.3
2.5°	2234.2	2223.8	2195.8	2206.3	2195.8
5°	2223.8	2206.3	2167.8	2167.8	2153.8
7.5°	2202.8	2181.8	2129.3	2111.9	2094.4
10°	2181.8	2150.3	2073.4	2052.4	2031.4
12.5°	2150.3	2104.9	2017.5	1986.0	1965.0
15°	2111.9	2055.9	1961.5	1926.6	1909.1
17.5°	2066.4	2003.5	1898.6	1870.6	1856.6
20°	2017.5	1944.0	1839.1	1814.7	1800.7
22.5°	1961.5	1877.6	1779.7	1762.2	1751.7
25°	1898.6	1814.7	1720.3	1706.3	1699.3
27.5°	1835.6	1744.7	1657.3	1650.3	1646.8
30°	1762.2	1674.8	1590.9	1594.4	1594.4
32.5°	1688.8	1601.4	1534.9	1541.9	1541.9
35°	1608.4	1524.5	1468.5	1482.5	1486.0
37.5°	1524.5	1451.0	1405.6	1426.6	1437.0
40°	1440.5	1374.1	1339.1	1370.6	1381.1
42.5°	1356.6	1293.7	1279.7	1318.2	1332.2
45°	1262.2	1213.3	1213.3	1262.2	1283.2
47.5°	1171.3	1139.8	1150.3	1213.3	1244.7
50°	1083.9	1059.4	1087.4	1167.8	1202.8
52.5°	989.5	982.5	1028.0	1125.9	1167.8
55°	909.1	905.6	972.0	1087.4	1129.4
57.5°	821.7	832.2	923.1	1048.9	1094.4
60°	737.8	758.7	877.6	1010.5	1052.4
62.5°	653.8	695.8	835.7	972.0	1021.0
65°	576.9	625.9	793.7	933.6	982.5
67.5°	500.0	562.9	751.7	898.6	947.5
70°	423.1	507.0	713.3	860.1	909.1
72.5°	346.2	458.0	674.8	821.7	874.1
75°	279.7	409.1	636.4	783.2	835.7
77.5°	216.8	370.6	597.9	751.7	797.2
80°	157.3	328.7	562.9	713.3	762.2
82.5°	101.4	293.7	524.5	674.8	727.3
85°	59.4	255.2	486.0	639.9	688.8
87.5°	24.5	216.8	451.0	601.4	650.3
90°	0.0	185.3	412.6	562.9	611.9
92.5°	0.0	153.8	377.6	528.0	576.9
95°	0.0	118.9	339.2	489.5	538.5
97.5°	0.0	90.9	300.7	451.0	500.0
100°	0.0	69.9	262.2	405.6	458.0
102.5°	0.0	49.0	223.8	363.6	416.1
105°	0.0	28.0	192.3	325.2	370.6
107.5°	0.0	14.0	160.8	286.7	332.2
110°	0.0	3.5	129.4	248.2	290.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	101.4	213.3	255.2
115°	0.0	0.0	76.9	178.3	216.8
117.5°	0.0	0.0	52.4	146.9	181.8
120°	0.0	0.0	31.5	115.4	146.9
122.5°	0.0	0.0	14.0	87.4	115.4
125°	0.0	0.0	3.5	59.4	87.4
127.5°	0.0	0.0	0.0	35.0	59.4
130°	0.0	0.0	0.0	17.5	35.0
132.5°	0.0	0.0	0.0	3.5	14.0
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°	3.5	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)