

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: P290129

Luminaire Tested: **8SSRK-LN-40-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290129
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-10)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SSRK-LN-40-L835-CD1-U
Description: 4000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH ROUND NARROW LENS AND 80 CRI 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4103.2 lumens
Efficiency: N/A
Efficacy: 151.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.03 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')
CIE Type: Direct

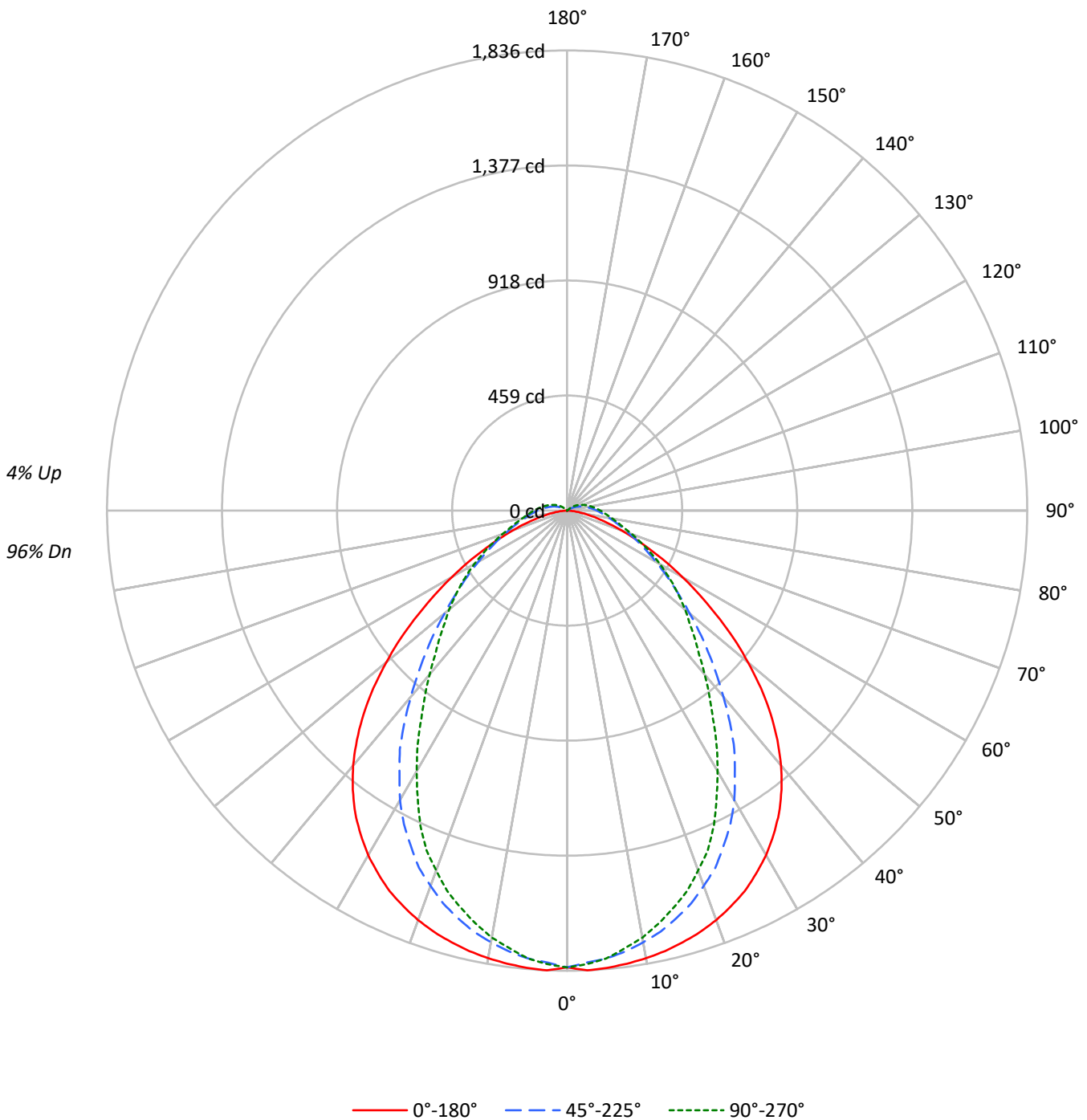
Input Watts (W): 27.0151
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	96				
1	108	104	99	96	105	101	97	94	96	93	90	91	89	86	87	85	83	81				
2	99	91	85	80	96	89	83	78	85	80	76	81	77	74	78	74	71	69				
3	91	81	74	68	88	79	72	67	76	70	65	73	68	63	70	65	62	59				
4	84	73	65	58	81	71	64	58	68	62	56	65	60	55	63	58	54	52				
5	78	66	57	51	75	64	56	51	62	55	50	59	53	49	57	52	48	46				
6	72	60	51	45	70	58	51	45	56	49	44	54	48	43	52	47	43	41				
7	67	54	46	40	65	53	46	40	52	45	39	50	44	39	48	43	38	36				
8	63	50	42	36	61	49	41	36	47	41	36	46	40	35	44	39	35	33				
9	59	46	38	33	57	45	38	33	44	37	32	43	36	32	41	36	32	30				
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	38	33	29	27				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	58854	58854	58854
5°	59253	46561	43070
10°	59246	38206	33264
15°	59279	31948	26466
20°	59299	26909	21385
25°	59137	22621	17228
30°	58493	18828	13522
35°	57278	15336	10525
40°	55039	12076	8269
45°	51423	9438	6572
50°	46127	7298	5351
55°	39757	5681	4347
60°	33118	4455	3495
65°	26404	3507	2760
70°	20602	2776	2169
75°	15420	2256	1727
80°	11159	1860	1432
85°	6942	1570	1220



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.1	4.2
10°-20°	479.2	11.7
20°-30°	690.6	16.8
30°-40°	748.0	18.2
40°-50°	662.5	16.1
50°-60°	504.1	12.3
60°-70°	335.9	8.2
70°-80°	207.5	5.1
80°-90°	130.0	3.2
90°-100°	85.4	2.1
100°-110°	52.3	1.3
110°-120°	27.0	0.7
120°-130°	8.9	0.2
130°-140°	0.5	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°	1340.9	32.7
0°-40°	2088.9	50.9
0°-60°	3255.6	79.3
0°-90°	3929.0	95.8
90°-120°	164.8	4.0
90°-150°	174.2	4.2
90°-180°	174.0	4.2
0°-180°	4103.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1823	1823	1823	1823	1823	
5°	1831	1820	1794	1800	1794	174
15°	1783	1749	1684	1661	1640	504
25°	1676	1597	1477	1413	1385	771
35°	1474	1336	1164	1054	1015	919
45°	1150	970	794	734	720	882
55°	727	594	511	517	518	653
65°	361	317	326	344	346	364
75°	133	162	210	224	220	147
85°	23	84	142	156	154	28
90°	1	61	118	133	132	2
95°	2	43	98	113	113	2
105°	1	17	61	78	80	2
115°	1	1	31	49	53	1
125°	1	1	1	21	26	1
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°	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°	1822.6	1822.6	1822.6	1822.6	1822.6
2.5°	1836.1	1826.0	1805.3	1817.3	1811.5
5°	1831.3	1819.7	1793.7	1800.4	1793.7
7.5°	1823.6	1809.1	1774.4	1777.3	1761.3
10°	1813.5	1794.2	1749.3	1744.5	1730.0
12.5°	1800.4	1773.4	1720.8	1701.5	1687.5
15°	1783.1	1749.3	1683.7	1661.0	1640.2
17.5°	1763.3	1719.8	1643.6	1616.1	1591.5
20°	1738.7	1684.1	1593.4	1555.3	1528.3
22.5°	1708.8	1645.1	1543.7	1488.2	1466.5
25°	1675.9	1597.3	1476.6	1413.4	1385.4
27.5°	1633.0	1544.7	1410.5	1331.4	1291.3
30°	1587.6	1482.4	1333.8	1242.6	1200.1
32.5°	1533.1	1414.4	1245.0	1148.0	1110.4
35°	1474.2	1336.2	1163.5	1053.9	1014.8
37.5°	1404.7	1251.8	1066.5	966.1	931.8
40°	1328.5	1160.1	969.9	881.6	854.6
42.5°	1241.6	1066.9	879.2	803.0	779.8
45°	1149.5	969.5	794.3	734.0	719.5
47.5°	1049.1	872.0	714.7	671.7	661.1
50°	941.0	774.5	637.5	613.8	614.3
52.5°	838.2	682.3	571.8	565.6	564.1
55°	727.2	593.6	510.6	516.8	518.3
57.5°	626.8	511.0	458.4	470.0	471.5
60°	531.3	437.2	408.7	426.6	429.0
62.5°	444.0	374.0	366.3	384.6	384.1
65°	361.0	316.6	325.7	344.5	346.0
67.5°	290.5	269.8	291.9	308.4	307.4
70°	230.7	227.8	259.1	276.5	275.5
72.5°	179.5	192.5	233.6	248.5	244.7
75°	133.2	162.1	209.9	223.9	220.5
77.5°	98.0	137.0	189.2	202.7	200.3
80°	67.1	116.3	171.3	185.3	182.4
82.5°	42.9	98.9	155.9	169.4	167.4
85°	23.2	83.5	141.9	156.3	153.9
87.5°	8.7	70.9	129.3	143.8	142.8
90°	1.0	60.8	118.2	133.2	132.2
92.5°	1.4	51.6	107.6	123.1	123.1
95°	2.4	42.9	98.0	113.4	112.9
97.5°	1.9	36.2	87.3	104.2	104.2
100°	1.9	29.9	77.7	94.6	95.5
102.5°	1.9	23.6	69.5	85.9	87.8
105°	1.4	16.9	61.3	78.2	80.1
107.5°	1.4	9.7	53.1	70.9	73.3
110°	1.4	2.4	45.8	63.2	66.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.4	1.4	38.6	56.0	58.9
115°	1.4	1.4	31.4	48.7	53.1
117.5°	1.0	1.0	23.2	42.5	46.3
120°	1.0	1.0	14.5	35.7	39.6
122.5°	1.0	1.0	6.3	28.5	33.8
125°	1.0	1.0	1.0	21.2	26.5
127.5°	1.0	1.0	0.5	12.5	18.8
130°	1.0	1.0	0.5	4.8	11.6
132.5°	1.0	1.0	0.5	0.5	3.4
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)