

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: **4SSRK-TB-80-L835-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: 4SSRK-TB-80-L835-CD1-U
Description: 8000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH TRILOBE RIBBED LENS AND 80 CRI 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7908.8 lumens
Efficiency: N/A
Efficacy: 125.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.08 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')
CIE Type: Direct

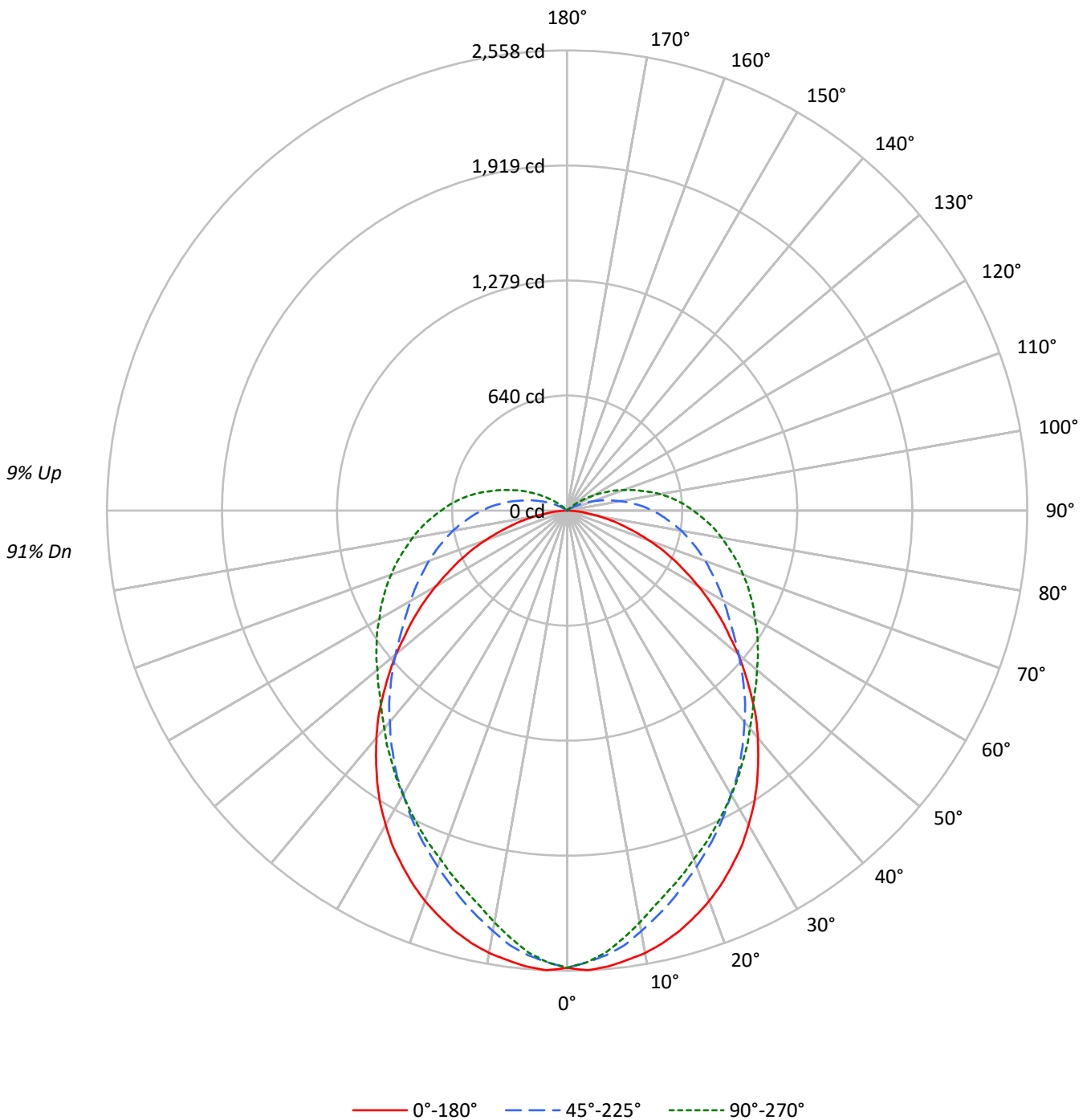
Input Watts (W): 62.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	164138	164138	164138
5°	164425	128691	118398
10°	162583	103493	89422
15°	159846	85019	70521
20°	156342	70918	57683
25°	151909	60153	48376
30°	146897	51245	41125
35°	141040	44161	35284
40°	134318	38032	30594
45°	126681	32879	26830
50°	118760	28385	23987
55°	110588	24653	21684
60°	101738	21808	19627
65°	92642	19475	17943
70°	82056	17417	16388
75°	69147	15580	14985
80°	54180	13928	13701
85°	34133	12245	12506



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.3	3.0
10°-20°	641.3	8.1
20°-30°	927.8	11.7
30°-40°	1079.3	13.6
40°-50°	1098.6	13.9
50°-60°	1022.2	12.9
60°-70°	890.1	11.3
70°-80°	724.6	9.2
80°-90°	548.9	6.9
90°-100°	380.6	4.8
100°-110°	223.7	2.8
110°-120°	104.9	1.3
120°-130°	29.9	0.4
130°-140°	1.6	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°	1804.4	22.8
0°-40°	2883.7	36.5
0°-60°	5004.5	63.3
0°-90°	7168.1	90.6
90°-120°	709.2	9.0
90°-150°	740.7	9.4
90°-180°	741.0	9.4
0°-180°	7908.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2542	2542	2542	2542	2542	
5°	2546	2525	2481	2481	2465	241
15°	2417	2353	2245	2205	2185	681
25°	2173	2077	1969	1953	1945	1001
35°	1841	1745	1681	1697	1701	1150
45°	1445	1389	1389	1445	1469	1115
55°	1041	1037	1113	1245	1293	929
65°	660	716	908	1069	1125	654
75°	320	468	728	896	956	342
85°	68	292	556	732	788	78
90°	0	212	472	644	700	4
95°	0	136	388	560	616	0
105°	0	32	220	372	424	0
115°	0	0	88	204	248	0
125°	0	0	4	68	100	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°	2541.5	2541.5	2541.5	2541.5	2541.5
2.5°	2557.5	2545.5	2513.4	2525.4	2513.4
5°	2545.5	2525.4	2481.4	2481.4	2465.4
7.5°	2521.4	2497.4	2437.4	2417.4	2397.4
10°	2497.4	2461.4	2373.4	2349.3	2325.3
12.5°	2461.4	2409.4	2309.3	2273.3	2249.3
15°	2417.4	2353.3	2245.3	2205.3	2185.2
17.5°	2365.4	2293.3	2173.2	2141.2	2125.2
20°	2309.3	2225.3	2105.2	2077.2	2061.2
22.5°	2245.3	2149.2	2037.2	2017.2	2005.1
25°	2173.2	2077.2	1969.1	1953.1	1945.1
27.5°	2101.2	1997.1	1897.1	1889.1	1885.1
30°	2017.2	1917.1	1821.0	1825.0	1825.0
32.5°	1933.1	1833.0	1757.0	1765.0	1765.0
35°	1841.1	1745.0	1681.0	1697.0	1701.0
37.5°	1745.0	1660.9	1608.9	1632.9	1644.9
40°	1648.9	1572.9	1532.9	1568.9	1580.9
42.5°	1552.9	1480.8	1464.8	1508.9	1524.9
45°	1444.8	1388.8	1388.8	1444.8	1468.8
47.5°	1340.8	1304.7	1316.8	1388.8	1424.8
50°	1240.7	1212.7	1244.7	1336.8	1376.8
52.5°	1132.6	1124.6	1176.7	1288.7	1336.8
55°	1040.6	1036.6	1112.6	1244.7	1292.7
57.5°	940.5	952.5	1056.6	1200.7	1252.7
60°	844.5	868.5	1004.6	1156.7	1204.7
62.5°	748.4	796.5	956.5	1112.6	1168.7
65°	660.4	716.4	908.5	1068.6	1124.6
67.5°	572.3	644.4	860.5	1028.6	1084.6
70°	484.3	580.3	816.5	984.6	1040.6
72.5°	396.2	524.3	772.4	940.5	1000.6
75°	320.2	468.3	728.4	896.5	956.5
77.5°	248.1	424.2	684.4	860.5	912.5
80°	180.1	376.2	644.4	816.5	872.5
82.5°	116.1	336.2	600.3	772.4	832.5
85°	68.0	292.2	556.3	732.4	788.5
87.5°	28.0	248.1	516.3	688.4	744.4
90°	0.0	212.1	472.3	644.4	700.4
92.5°	0.0	176.1	432.2	604.3	660.4
95°	0.0	136.1	388.2	560.3	616.4
97.5°	0.0	104.1	344.2	516.3	572.3
100°	0.0	80.0	300.2	464.3	524.3
102.5°	0.0	56.0	256.1	416.2	476.3
105°	0.0	32.0	220.1	372.2	424.2
107.5°	0.0	16.0	184.1	328.2	380.2
110°	0.0	4.0	148.1	284.2	332.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	116.1	244.1	292.2
115°	0.0	0.0	88.1	204.1	248.1
117.5°	0.0	0.0	60.0	168.1	208.1
120°	0.0	0.0	36.0	132.1	168.1
122.5°	0.0	0.0	16.0	100.1	132.1
125°	0.0	0.0	4.0	68.0	100.1
127.5°	0.0	0.0	0.0	40.0	68.0
130°	0.0	0.0	0.0	20.0	40.0
132.5°	0.0	0.0	0.0	4.0	16.0
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°	4.0	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)