

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: P289769

Luminaire Tested: **4SSRK-TS-80-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289769
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: 4SSRK-TS-80-L835-CD1-U
Description: 8000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH TRILOBE SMOOTH LENS AND 80 CRI 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7532.3 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')
CIE Type: Semi-Direct

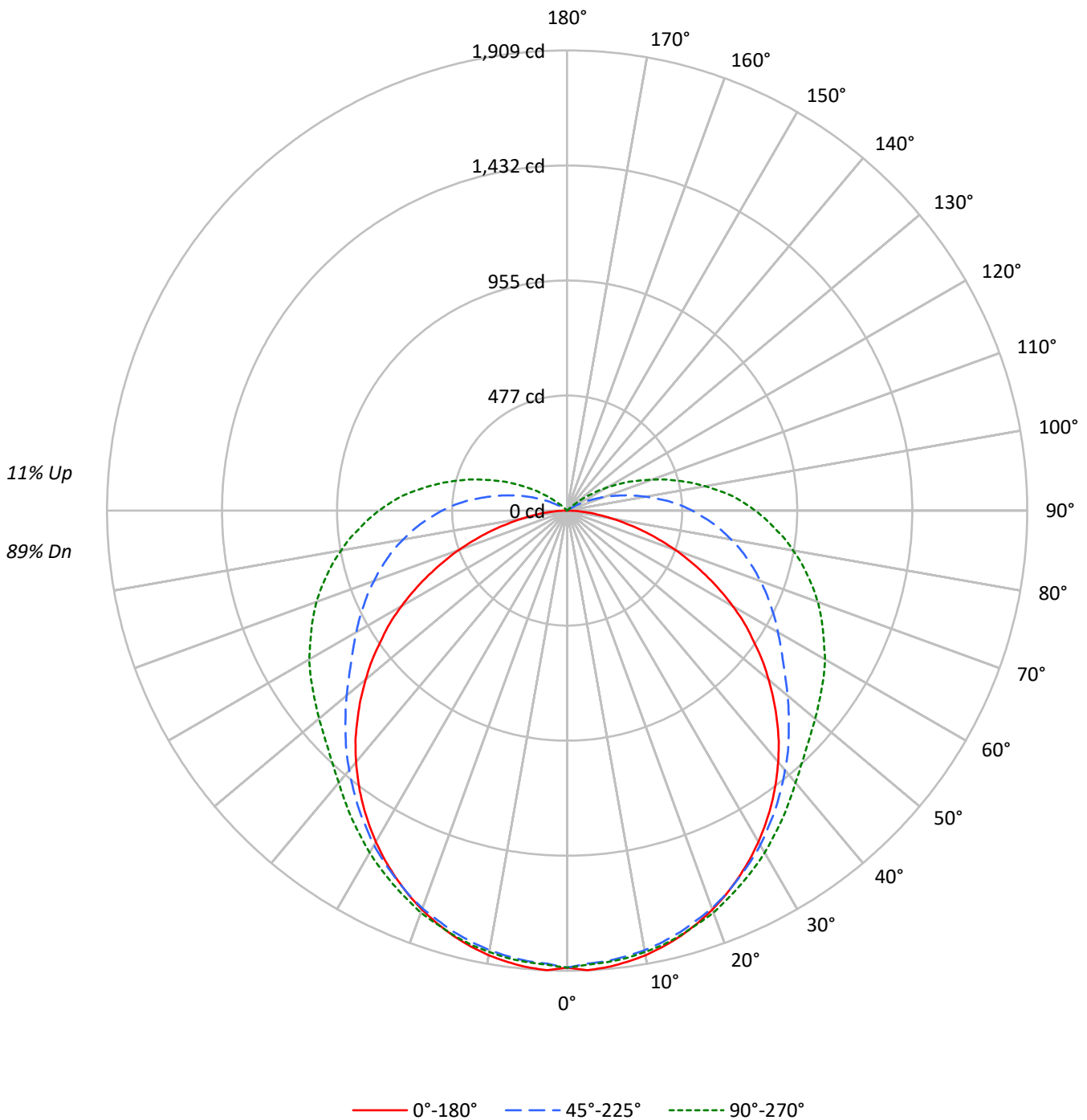
Input Watts (W): 62.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	122443	122443	122443
5°	122845	97304	90342
10°	121954	80744	71509
15°	120747	68551	58835
20°	119235	59165	49671
25°	117469	51429	42529
30°	115576	45108	36938
35°	113446	39629	32330
40°	110939	34889	28526
45°	107953	30777	25597
50°	104479	27224	23403
55°	100322	24230	21625
60°	95606	21924	20122
65°	88981	19962	18686
70°	81141	18188	17423
75°	70291	16554	16159
80°	56496	14941	14947
85°	38500	13354	13740



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.4	2.4
10°-20°	513.9	6.8
20°-30°	780.4	10.4
30°-40°	948.6	12.6
40°-50°	1012.4	13.4
50°-60°	992.9	13.2
60°-70°	907.1	12.0
70°-80°	769.9	10.2
80°-90°	599.1	8.0
90°-100°	422.4	5.6
100°-110°	251.1	3.3
110°-120°	118.9	1.6
120°-130°	34.4	0.5
130°-140°	2.0	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°	1473.6	19.6
0°-40°	2422.2	32.2
0°-60°	4427.5	58.8
0°-90°	6703.5	89.0
90°-120°	792.4	10.5
90°-150°	828.8	11.0
90°-180°	829.0	11.0
0°-180°	7532.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1896	1896	1896	1896	1896	
5°	1902	1895	1876	1887	1881	181
15°	1826	1822	1810	1826	1823	515
25°	1680	1682	1684	1710	1710	775
35°	1481	1489	1508	1546	1559	926
45°	1231	1252	1300	1369	1401	950
55°	944	984	1094	1236	1289	845
65°	634	716	931	1109	1171	628
75°	326	494	774	966	1032	345
85°	77	315	607	800	866	86
90°	6	233	518	713	780	7
95°	6	156	428	618	689	5
105°	5	42	244	414	477	5
115°	4	4	99	227	281	4
125°	3	2	5	76	111	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°	1895.9	1895.9	1895.9	1895.9	1895.9
2.5°	1908.7	1901.8	1881.2	1892.0	1886.1
5°	1901.8	1894.9	1876.2	1887.1	1881.2
7.5°	1889.0	1884.1	1865.4	1877.2	1873.3
10°	1873.3	1868.4	1851.7	1865.4	1859.5
12.5°	1851.7	1846.7	1833.0	1846.7	1844.8
15°	1826.1	1822.2	1810.4	1826.1	1823.1
17.5°	1795.6	1792.7	1782.8	1802.5	1798.6
20°	1761.2	1759.2	1756.3	1774.0	1774.9
22.5°	1723.8	1723.8	1721.8	1741.5	1742.5
25°	1680.5	1681.5	1683.5	1710.0	1710.0
27.5°	1636.3	1639.2	1644.2	1669.7	1675.6
30°	1587.1	1592.0	1602.9	1630.4	1639.2
32.5°	1535.0	1542.9	1554.7	1589.1	1597.9
35°	1480.9	1488.8	1508.5	1545.8	1558.6
37.5°	1422.9	1431.8	1457.3	1499.6	1516.3
40°	1361.9	1371.8	1406.2	1459.3	1474.0
42.5°	1300.0	1313.8	1356.0	1413.1	1435.7
45°	1231.2	1251.8	1300.0	1368.8	1401.3
47.5°	1162.3	1186.9	1246.9	1331.5	1370.8
50°	1091.5	1119.1	1193.8	1298.0	1343.3
52.5°	1020.7	1051.2	1141.7	1266.6	1315.7
55°	944.0	984.3	1093.5	1236.1	1289.2
57.5°	873.2	916.5	1050.2	1205.6	1263.6
60°	793.6	848.6	1009.9	1174.1	1235.1
62.5°	714.9	780.8	971.6	1141.7	1201.7
65°	634.3	715.9	931.2	1109.2	1171.2
67.5°	554.6	650.0	893.9	1075.8	1139.7
70°	478.9	593.0	852.6	1041.4	1106.3
72.5°	399.2	542.8	814.2	1005.0	1069.9
75°	325.5	493.6	773.9	965.7	1031.5
77.5°	250.8	447.4	734.6	926.3	994.2
80°	187.8	404.2	691.3	885.0	951.9
82.5°	127.8	360.9	649.0	842.7	912.6
85°	76.7	314.7	606.7	799.5	866.3
87.5°	34.4	274.4	560.5	755.2	825.0
90°	5.9	233.1	518.2	712.9	779.8
92.5°	6.9	195.7	475.0	667.7	734.6
95°	5.9	156.4	427.8	617.5	689.3
97.5°	5.9	122.9	377.6	568.4	634.3
100°	4.9	91.5	329.4	516.3	581.2
102.5°	4.9	64.9	286.2	465.1	530.0
105°	4.9	42.3	243.9	414.0	476.9
107.5°	4.9	23.6	202.6	364.8	428.7
110°	4.9	8.9	165.2	320.6	373.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.9	3.9	128.8	271.4	326.5
115°	3.9	3.9	99.3	227.2	281.2
117.5°	3.9	3.0	67.9	185.9	235.0
120°	3.9	3.0	42.3	148.5	190.8
122.5°	3.0	2.0	20.7	110.1	152.4
125°	3.0	2.0	4.9	75.7	111.1
127.5°	3.0	1.0	0.0	45.2	76.7
130°	2.0	1.0	0.0	21.6	45.2
132.5°	2.0	1.0	0.0	3.9	19.7
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)