

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: P289800

Luminaire Tested: **8SSRK-TS-80-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289800
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-80-L830-CD1-U
Description: 8000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH TRILOBE SMOOTH LENS AND 80 CRI 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7518.7 lumens
Efficiency: N/A
Efficacy: 132.7 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

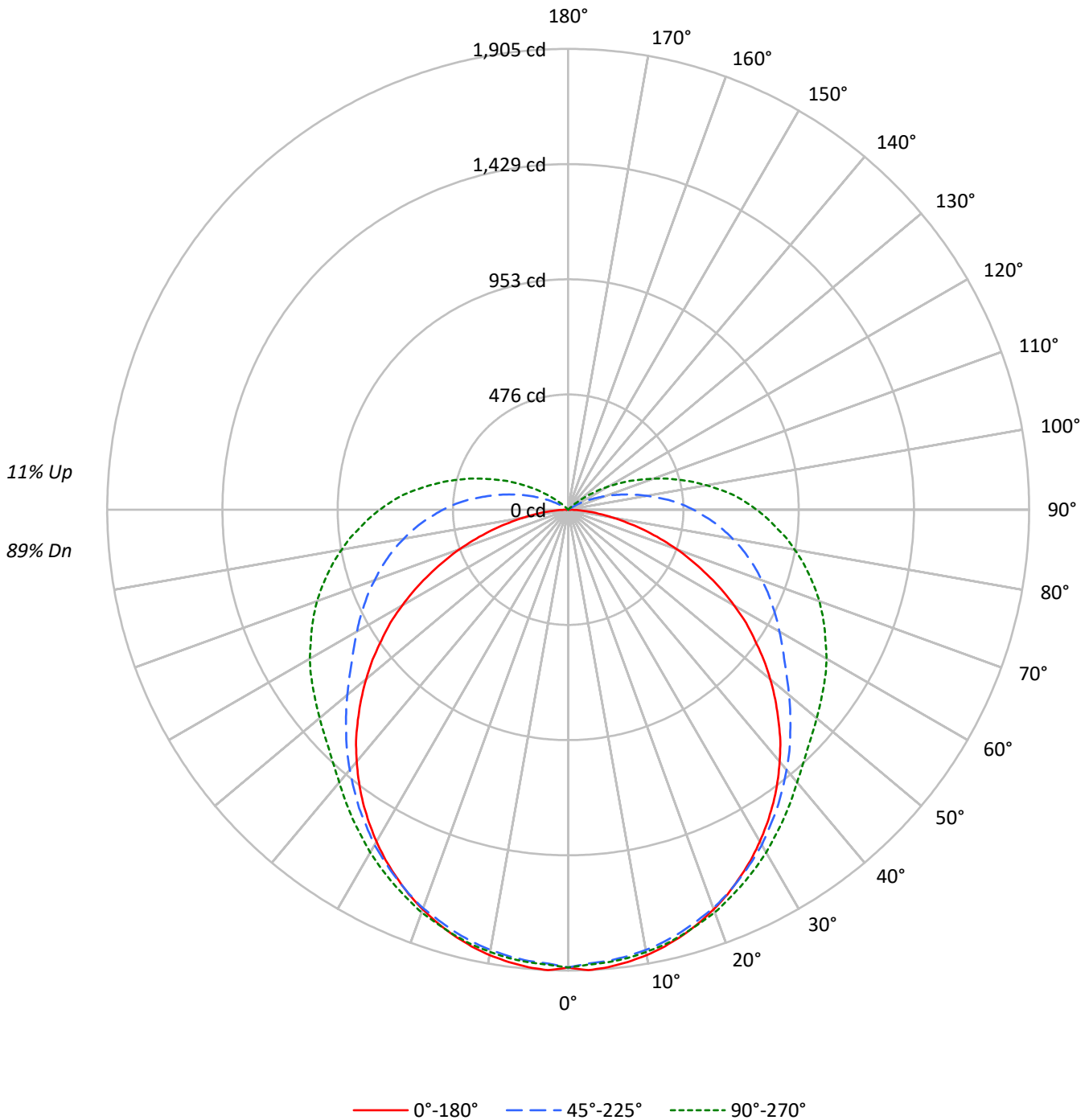
Input Watts (W): 56.6491
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	61112	61112	61112
5°	61424	48617	45089
10°	61089	40368	35691
15°	60599	34290	29366
20°	59957	29606	24792
25°	59194	25744	21227
30°	58372	22585	18436
35°	57438	19847	16136
40°	56323	17477	14238
45°	54975	15420	12776
50°	53412	13641	11680
55°	51517	12143	10793
60°	49375	10989	10043
65°	46305	10008	9326
70°	42687	9118	8696
75°	37612	8301	8066
80°	31183	7494	7460
85°	22922	6698	6858



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.1	2.4
10°-20°	513.0	6.8
20°-30°	779.0	10.4
30°-40°	946.9	12.6
40°-50°	1010.6	13.4
50°-60°	991.1	13.2
60°-70°	905.5	12.0
70°-80°	768.5	10.2
80°-90°	598.0	8.0
90°-100°	421.6	5.6
100°-110°	250.6	3.3
110°-120°	118.6	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°	1471.0	19.6
0°-40°	2417.9	32.2
0°-60°	4419.5	58.8
0°-90°	6691.5	89.0
90°-120°	790.9	10.5
90°-150°	827.2	11.0
90°-180°	827.0	11.0
0°-180°	7518.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1892	1892	1892	1892	1892	
5°	1898	1892	1873	1884	1878	180
15°	1823	1819	1807	1823	1820	514
25°	1678	1678	1680	1707	1707	773
35°	1478	1486	1506	1543	1556	924
45°	1229	1250	1298	1366	1399	948
55°	942	983	1092	1234	1287	844
65°	633	715	930	1107	1169	627
75°	325	493	772	964	1030	344
85°	77	314	606	798	865	86
90°	6	233	517	712	778	7
95°	6	156	427	616	688	5
105°	5	42	243	413	476	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°	1892.5	1892.5	1892.5	1892.5	1892.5
2.5°	1905.3	1898.4	1877.8	1888.6	1882.7
5°	1898.4	1891.5	1872.9	1883.7	1877.8
7.5°	1885.6	1880.7	1862.1	1873.9	1869.9
10°	1869.9	1865.0	1848.3	1862.1	1856.2
12.5°	1848.3	1843.4	1829.7	1843.4	1841.5
15°	1822.8	1818.9	1807.1	1822.8	1819.9
17.5°	1792.4	1789.4	1779.6	1799.3	1795.3
20°	1758.0	1756.1	1753.1	1770.8	1771.8
22.5°	1720.7	1720.7	1718.8	1738.4	1739.4
25°	1677.5	1678.5	1680.5	1707.0	1707.0
27.5°	1633.4	1636.3	1641.2	1666.7	1672.6
30°	1584.3	1589.2	1600.0	1627.5	1636.3
32.5°	1532.3	1540.1	1551.9	1586.2	1595.1
35°	1478.3	1486.1	1505.8	1543.1	1555.8
37.5°	1420.4	1429.2	1454.7	1496.9	1513.6
40°	1359.5	1369.3	1403.7	1456.7	1471.4
42.5°	1297.7	1311.4	1353.6	1410.5	1433.1
45°	1228.9	1249.6	1297.7	1366.4	1398.8
47.5°	1160.2	1184.8	1244.7	1329.1	1368.3
50°	1089.6	1117.0	1191.6	1295.7	1340.8
52.5°	1018.9	1049.3	1139.6	1264.3	1313.4
55°	942.3	982.6	1091.5	1233.9	1286.9
57.5°	871.6	914.8	1048.3	1203.4	1261.3
60°	792.1	847.1	1008.1	1172.0	1232.9
62.5°	713.6	779.4	969.8	1139.6	1199.5
65°	633.1	714.6	929.6	1107.2	1169.1
67.5°	553.6	648.8	892.3	1073.9	1137.7
70°	478.0	591.9	851.0	1039.5	1104.3
72.5°	398.5	541.8	812.8	1003.2	1068.0
75°	324.9	492.8	772.5	963.9	1029.7
77.5°	250.3	446.6	733.2	924.7	992.4
80°	187.5	403.4	690.1	883.4	950.2
82.5°	127.6	360.2	647.8	841.2	910.9
85°	76.6	314.1	605.6	798.0	864.8
87.5°	34.4	273.9	559.5	753.9	823.6
90°	5.9	232.6	517.3	711.7	778.4
92.5°	6.9	195.3	474.1	666.5	733.2
95°	5.9	156.1	427.0	616.4	688.1
97.5°	5.9	122.7	376.9	567.4	633.1
100°	4.9	91.3	328.8	515.3	580.1
102.5°	4.9	64.8	285.6	464.3	529.1
105°	4.9	42.2	243.4	413.2	476.1
107.5°	4.9	23.6	202.2	364.2	428.0
110°	4.9	8.8	164.9	320.0	373.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.9	3.9	128.6	270.9	325.9
115°	3.9	3.9	99.1	226.7	280.7
117.5°	3.9	2.9	67.7	185.5	234.6
120°	3.9	2.9	42.2	148.2	190.4
122.5°	2.9	2.0	20.6	109.9	152.1
125°	2.9	2.0	4.9	75.6	110.9
127.5°	2.9	1.0	0.0	45.2	76.6
130°	2.0	1.0	0.0	21.6	45.2
132.5°	2.0	1.0	0.0	3.9	19.6
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)