

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: P290135

Luminaire Tested: **8SSRK-LN-50-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290135
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-50-L950-CD1-U
Description: 5000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH ROUND NARROW LENS AND 90 CRI 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4733.1 lumens
Efficiency: N/A
Efficacy: 138.4 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

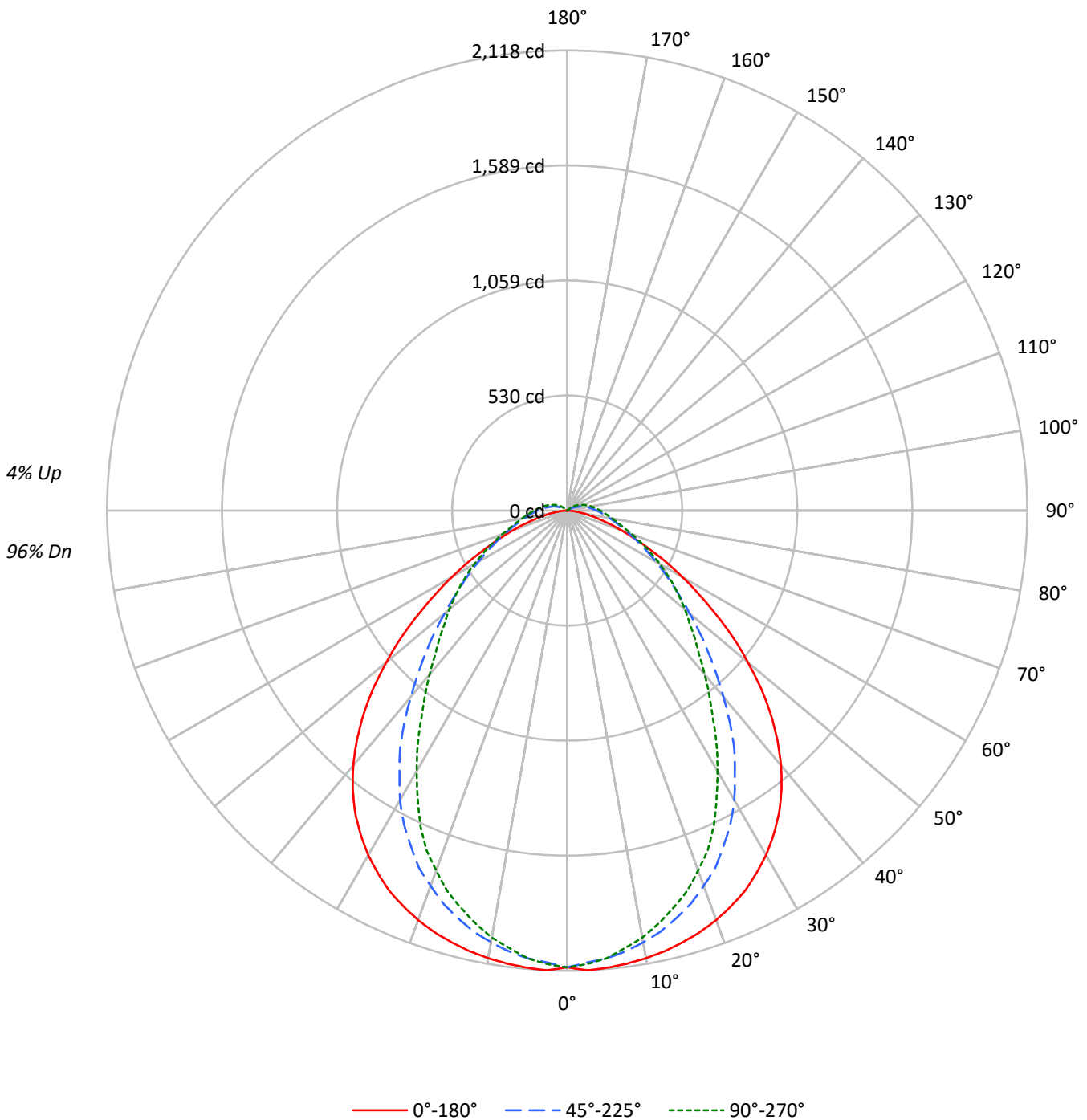
Input Watts (W): 34.1991
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	67890	67890	67890
5°	68349	53707	49680
10°	68338	44070	38370
15°	68378	36851	30529
20°	68402	31040	24667
25°	68217	26094	19873
30°	67472	21717	15598
35°	66071	17690	12141
40°	63486	13930	9539
45°	59314	10887	7580
50°	53206	8418	6173
55°	45864	6552	5014
60°	38204	5140	4031
65°	30456	4045	3184
70°	23763	3203	2503
75°	17781	2602	1993
80°	12872	2146	1652
85°	7990	1811	1408



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.4	4.2
10°-20°	552.7	11.7
20°-30°	796.6	16.8
30°-40°	862.9	18.2
40°-50°	764.2	16.1
50°-60°	581.5	12.3
60°-70°	387.4	8.2
70°-80°	239.4	5.1
80°-90°	150.0	3.2
90°-100°	98.5	2.1
100°-110°	60.4	1.3
110°-120°	31.2	0.7
120°-130°	10.2	0.2
130°-140°	0.6	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°	1546.7	32.7
0°-40°	2409.6	50.9
0°-60°	3755.4	79.3
0°-90°	4532.1	95.8
90°-120°	190.1	4.0
90°-150°	200.9	4.2
90°-180°	201.0	4.2
0°-180°	4733.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2102	2102	2102	2102	2102	
5°	2112	2099	2069	2077	2069	201
15°	2057	2018	1942	1916	1892	581
25°	1933	1842	1703	1630	1598	889
35°	1700	1541	1342	1216	1171	1060
45°	1326	1118	916	847	830	1017
55°	839	685	589	596	598	754
65°	416	365	376	397	399	420
75°	154	187	242	258	254	170
85°	27	96	164	180	178	33
90°	1	70	136	154	152	2
95°	3	50	113	131	130	2
105°	2	20	71	90	92	2
115°	2	2	36	56	61	1
125°	1	1	1	24	31	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°	2102.4	2102.4	2102.4	2102.4	2102.4
2.5°	2118.0	2106.3	2082.4	2096.3	2089.6
5°	2112.4	2099.1	2069.0	2076.8	2069.0
7.5°	2103.5	2086.8	2046.8	2050.1	2031.7
10°	2091.8	2069.6	2017.8	2012.2	1995.5
12.5°	2076.8	2045.6	1985.0	1962.7	1946.6
15°	2056.8	2017.8	1942.1	1915.9	1892.0
17.5°	2034.0	1983.9	1895.9	1864.2	1835.8
20°	2005.6	1942.7	1838.0	1794.0	1762.9
22.5°	1971.1	1897.6	1780.7	1716.7	1691.6
25°	1933.2	1842.5	1703.3	1630.4	1598.1
27.5°	1883.7	1781.8	1627.1	1535.8	1489.6
30°	1831.3	1710.0	1538.5	1433.3	1384.4
32.5°	1768.4	1631.5	1436.1	1324.2	1280.8
35°	1700.5	1541.3	1342.1	1215.7	1170.6
37.5°	1620.4	1443.9	1230.2	1114.4	1074.9
40°	1532.4	1338.2	1118.8	1017.0	985.8
42.5°	1432.2	1230.7	1014.2	926.2	899.5
45°	1325.9	1118.3	916.2	846.6	829.9
47.5°	1210.1	1005.8	824.4	774.8	762.6
50°	1085.4	893.4	735.3	708.0	708.6
52.5°	966.9	787.1	659.6	652.4	650.7
55°	838.9	684.7	588.9	596.2	597.8
57.5°	723.1	589.5	528.8	542.2	543.8
60°	612.9	504.3	471.5	492.1	494.9
62.5°	512.1	431.4	422.5	443.6	443.1
65°	416.4	365.2	375.7	397.4	399.1
67.5°	335.1	311.2	336.8	355.7	354.6
70°	266.1	262.7	298.9	319.0	317.8
72.5°	207.1	222.1	269.4	286.7	282.2
75°	153.6	187.0	242.1	258.3	254.4
77.5°	113.0	158.1	218.2	233.8	231.0
80°	77.4	134.1	197.6	213.7	210.4
82.5°	49.5	114.1	179.8	195.4	193.2
85°	26.7	96.3	163.7	180.4	177.6
87.5°	10.0	81.8	149.2	165.9	164.8
90°	1.1	70.1	136.4	153.6	152.5
92.5°	1.7	59.6	124.1	141.9	141.9
95°	2.8	49.5	113.0	130.8	130.3
97.5°	2.2	41.7	100.8	120.2	120.2
100°	2.2	34.5	89.6	109.1	110.2
102.5°	2.2	27.3	80.2	99.1	101.3
105°	1.7	19.5	70.7	90.2	92.4
107.5°	1.7	11.1	61.2	81.8	84.6
110°	1.7	2.8	52.9	72.9	76.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.7	1.7	44.5	64.6	67.9
115°	1.7	1.7	36.2	56.2	61.2
117.5°	1.1	1.1	26.7	49.0	53.4
120°	1.1	1.1	16.7	41.2	45.6
122.5°	1.1	1.1	7.2	32.8	39.0
125°	1.1	1.1	1.1	24.5	30.6
127.5°	1.1	1.1	0.6	14.5	21.7
130°	1.1	1.1	0.6	5.6	13.4
132.5°	1.1	1.1	0.6	0.6	3.9
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)