

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: P290312

Luminaire Tested: **8SSRK-SLC-50-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290312
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-16)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SSRK-SLC-50-L830-CD1-U
Description: 5000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH SQUARE CLEAR LENS AND 80 CRI 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5346.9 lumens
Efficiency: N/A
Efficacy: 156.3 lumens/watt
Spacing Criteria (0/90/45): 1.44 / 0.89 / 0.98
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')
CIE Type: Direct

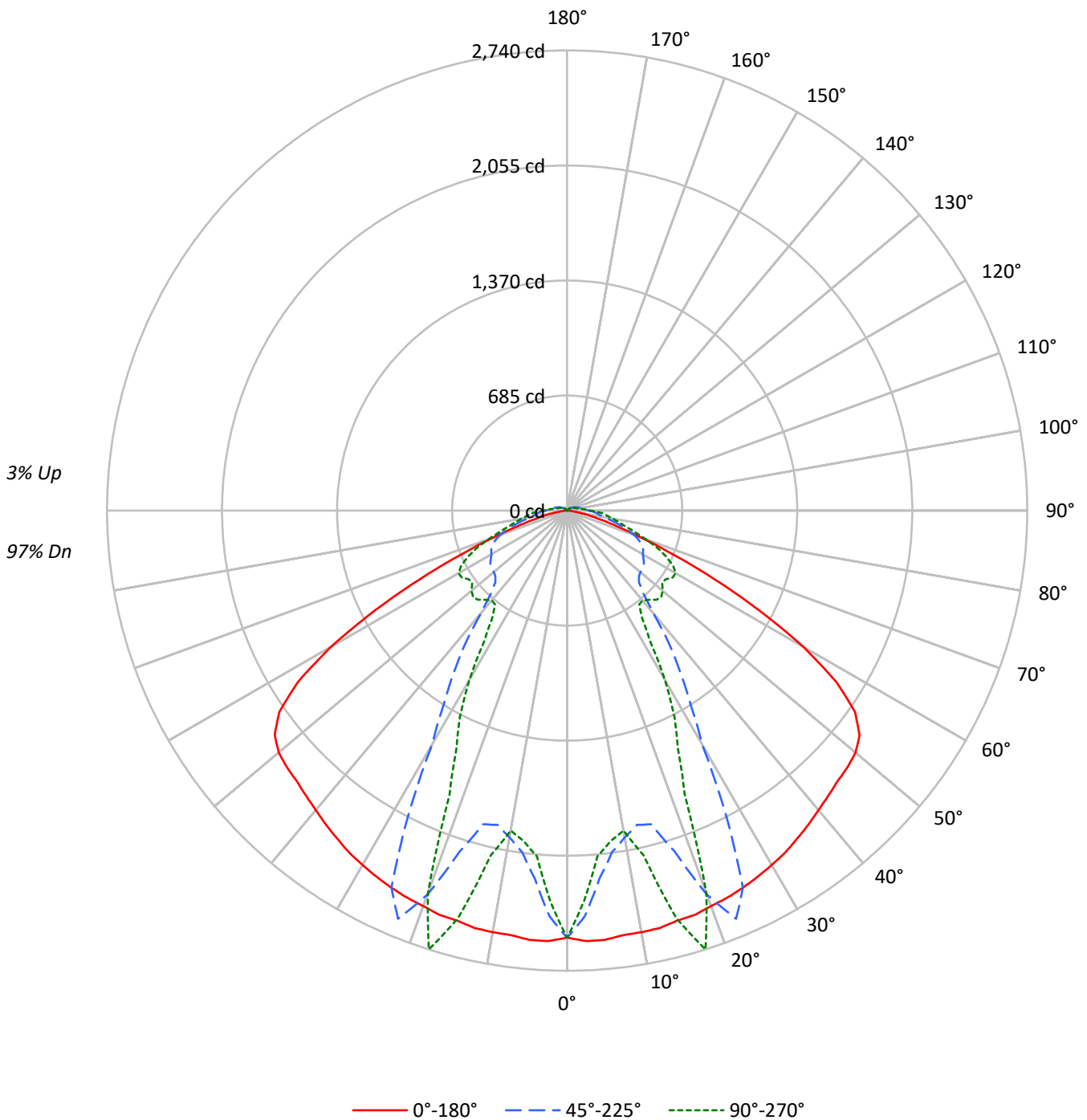
Input Watts (W): 34.1991
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	104	104	99	99	99	97
1	108	103	99	95	105	101	97	93	96	93	90	91	89	87	87	85	83	81
2	99	91	84	79	96	89	83	78	85	80	75	81	77	73	77	74	71	69
3	91	81	73	67	88	79	72	66	75	69	64	72	67	63	69	65	61	59
4	84	72	64	57	81	71	63	57	68	61	56	65	59	54	62	57	53	51
5	77	65	56	50	75	64	56	50	61	54	49	59	53	48	57	51	47	45
6	72	59	50	44	70	58	50	44	56	49	43	54	47	43	52	46	42	40
7	67	54	45	40	65	53	45	39	51	44	39	49	43	38	48	42	38	36
8	62	49	41	36	61	49	41	35	47	40	35	46	39	35	44	38	34	32
9	58	46	38	32	57	45	37	32	44	37	32	42	36	32	41	35	31	29
10	55	42	35	30	54	42	34	30	40	34	29	39	33	29	38	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	82114	82114	82114
5°	83009	57110	49630
10°	83268	43146	37193
15°	84020	36681	40550
20°	85461	41109	33893
25°	87413	37922	19360
30°	89774	22710	13114
35°	92697	15468	8028
40°	96443	9948	6749
45°	101893	7196	6862
50°	109868	6522	6471
55°	114373	6212	5985
60°	101330	5671	6081
65°	70932	5337	5202
70°	41222	4537	3913
75°	23431	3427	2783
80°	13305	2419	2152
85°	6434	1942	1762



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.2	4.0
10°-20°	634.5	11.9
20°-30°	933.9	17.5
30°-40°	912.3	17.1
40°-50°	756.3	14.1
50°-60°	694.3	13.0
60°-70°	550.2	10.3
70°-80°	305.5	5.7
80°-90°	161.8	3.0
90°-100°	85.1	1.6
100°-110°	51.2	1.0
110°-120°	29.2	0.5
120°-130°	16.1	0.3
130°-140°	5.1	0.1
140°-150°	0.1	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1779.6	33.3
0°-40°	2691.9	50.3
0°-60°	4142.5	77.5
0°-90°	5160.0	96.5
90°-120°	165.5	3.1
90°-150°	186.9	3.5
90°-180°	187.0	3.5
0°-180°	5346.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2543	2543	2543	2543	2543	
5°	2566	2422	2200	2106	2067	244
15°	2527	2018	1933	2367	2513	717
25°	2477	1927	2475	1688	1557	1145
35°	2386	2300	1174	838	774	1497
45°	2278	1040	606	691	751	1766
55°	2092	463	558	669	714	1817
65°	970	301	496	629	652	982
75°	202	183	319	340	355	240
85°	22	90	176	213	222	30
90°	1	66	128	140	139	1
95°	1	52	100	104	99	1
105°	1	35	70	60	54	1
115°	1	4	45	43	40	1
125°	1	1	21	33	33	1
135°	1	1	1	14	18	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°	2542.9	2542.9	2542.9	2542.9	2542.9
2.5°	2565.5	2519.6	2417.4	2348.2	2324.9
5°	2565.5	2421.6	2200.1	2106.3	2066.9
7.5°	2550.0	2297.4	2051.4	2010.8	1985.1
10°	2548.8	2164.8	1975.5	1941.5	1934.3
12.5°	2545.8	2091.4	1917.0	2037.6	2102.7
15°	2527.3	2018.5	1933.1	2367.3	2513.0
17.5°	2524.3	1964.2	2129.0	2678.4	2739.9
20°	2505.8	1921.2	2434.2	2639.0	2422.2
22.5°	2493.9	1891.3	2630.6	2123.0	1828.0
25°	2477.2	1927.1	2475.4	1687.7	1556.9
27.5°	2458.0	2042.4	2052.0	1469.1	1382.5
30°	2436.6	2222.8	1608.8	1284.0	1163.9
32.5°	2415.1	2354.7	1369.4	1054.0	913.1
35°	2385.8	2300.4	1173.5	838.5	774.0
37.5°	2358.3	2049.6	994.9	723.8	705.3
40°	2327.9	1651.2	799.0	678.4	697.5
42.5°	2302.2	1309.0	671.2	673.6	720.8
45°	2277.7	1040.3	605.6	691.0	751.3
47.5°	2263.4	827.1	579.3	711.9	760.2
50°	2241.3	662.9	569.7	716.0	742.9
52.5°	2194.7	546.4	566.7	693.9	712.5
55°	2092.0	463.4	558.4	668.9	713.6
57.5°	1902.7	412.1	539.3	674.2	742.9
60°	1625.6	372.1	520.2	691.6	746.5
62.5°	1293.5	335.6	510.0	677.2	711.3
65°	969.8	301.0	495.7	628.8	652.1
67.5°	679.0	271.1	463.4	568.5	581.1
70°	461.6	242.5	423.4	491.5	496.9
72.5°	310.5	213.8	373.8	412.1	420.4
75°	202.4	183.3	318.9	340.4	355.3
77.5°	129.0	155.9	264.6	292.0	311.1
80°	80.0	129.0	222.8	262.2	274.1
82.5°	44.8	107.5	192.9	234.1	240.7
85°	21.5	90.2	175.6	213.2	222.2
87.5°	5.4	76.4	154.7	176.8	176.8
90°	0.6	65.7	128.4	140.3	139.1
92.5°	0.6	57.9	111.7	119.4	117.0
95°	1.2	52.0	99.7	103.9	99.1
97.5°	1.2	49.0	92.0	89.0	81.8
100°	1.2	45.4	83.6	75.8	68.1
102.5°	1.2	40.6	76.4	66.9	60.3
105°	1.2	34.6	69.9	60.3	54.3
107.5°	1.2	27.5	62.7	54.9	50.2
110°	1.2	19.7	56.1	50.8	47.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.2	11.9	50.8	47.2	44.2
115°	1.2	4.2	45.4	43.0	40.0
117.5°	1.2	1.8	40.0	41.2	37.6
120°	1.2	1.8	33.4	38.8	35.8
122.5°	1.2	1.8	27.5	36.4	34.6
125°	1.2	1.2	20.9	33.4	32.8
127.5°	1.2	1.2	14.3	29.3	30.5
130°	1.2	1.2	7.2	23.9	26.9
132.5°	1.2	1.2	1.2	19.7	22.1
135°	1.2	1.2	1.2	14.3	17.9
137.5°	1.2	1.2	1.2	7.2	13.1
140°	1.2	1.2	1.2	1.2	5.4
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)