

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: P290311

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290311
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-L950-CD1-U
Description: 5000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH SQUARE CLEAR LENS AND 90 CRI 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

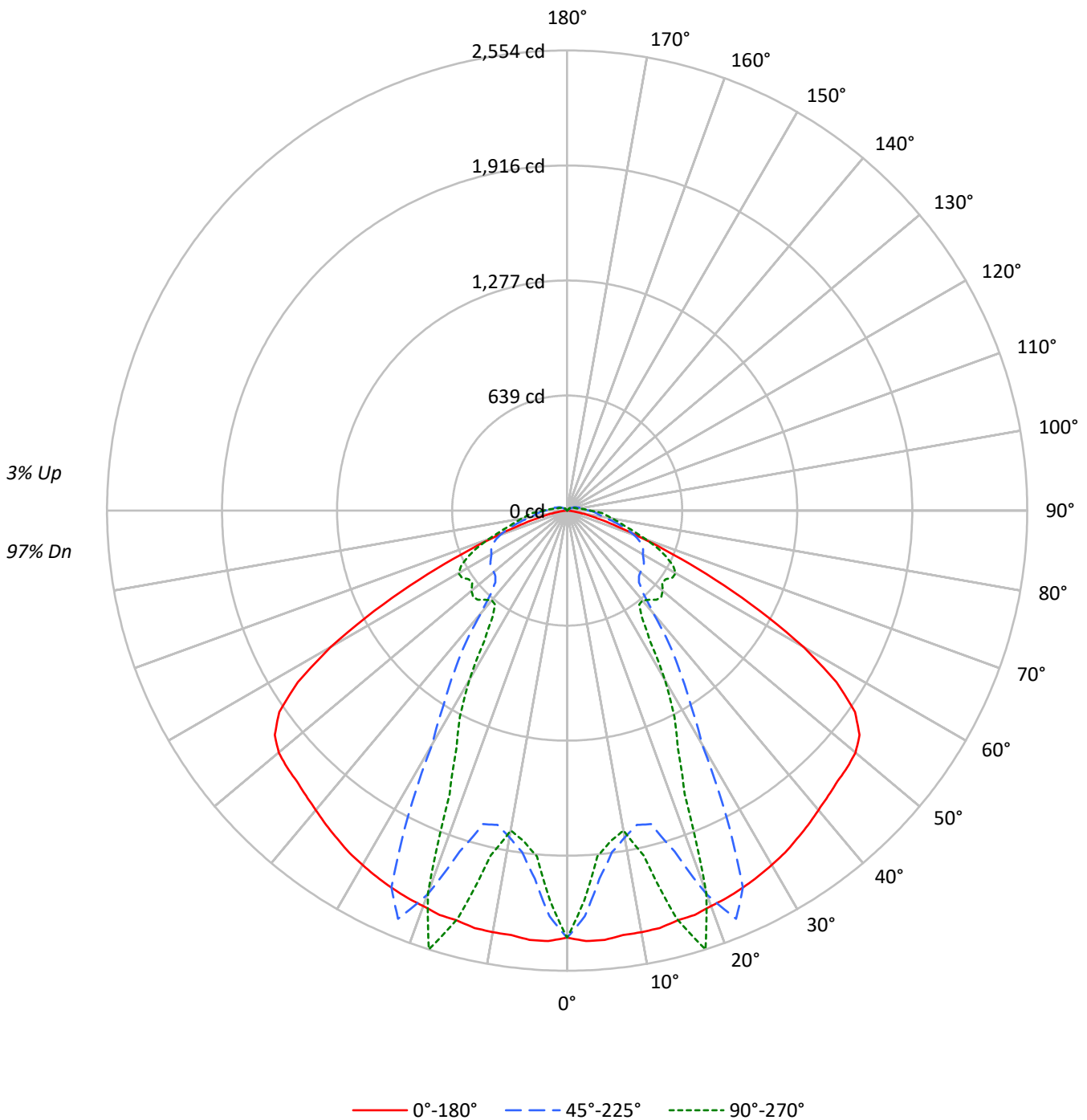
Lumens per Lamp: N/A
Luminaire Lumens: 4983.8 lumens
Efficiency: N/A
Efficacy: 145.7 lumens/watt
Spacing Criteria (0/90/45): 1.44 / 0.89 / 0.98
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')
CIE Type: Direct

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°	76537	76537	76537
5°	77373	53229	46259
10°	77613	40215	34666
15°	78315	34189	37796
20°	79656	38315	31591
25°	81474	35347	18045
30°	83676	21168	12224
35°	86403	14417	7482
40°	89893	9273	6291
45°	94973	6707	6395
50°	102407	6079	6032
55°	106605	5791	5579
60°	94448	5285	5668
65°	66119	4974	4849
70°	38427	4229	3647
75°	21845	3194	2594
80°	12407	2254	2006
85°	5985	1811	1642



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.9	4.0
10°-20°	591.4	11.9
20°-30°	870.5	17.5
30°-40°	850.3	17.1
40°-50°	704.9	14.1
50°-60°	647.2	13.0
60°-70°	512.8	10.3
70°-80°	284.8	5.7
80°-90°	150.8	3.0
90°-100°	79.3	1.6
100°-110°	47.7	1.0
110°-120°	27.3	0.5
120°-130°	15.1	0.3
130°-140°	4.8	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°	1658.7	33.3
0°-40°	2509.0	50.3
0°-60°	3861.1	77.5
0°-90°	4809.5	96.5
90°-120°	154.3	3.1
90°-150°	174.2	3.5
90°-180°	174.0	3.5
0°-180°	4983.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2370	2370	2370	2370	2370	
5°	2391	2257	2051	1963	1926	227
15°	2356	1881	1802	2206	2342	668
25°	2309	1796	2307	1573	1451	1067
35°	2224	2144	1094	782	721	1395
45°	2123	970	564	644	700	1646
55°	1950	432	520	623	665	1693
65°	904	280	462	586	608	915
75°	189	171	297	317	331	224
85°	20	84	164	199	207	28
90°	1	61	120	131	130	1
95°	1	48	93	97	92	1
105°	1	32	65	56	51	1
115°	1	4	42	40	37	1
125°	1	1	20	31	31	1
135°	1	1	1	13	17	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°	2370.2	2370.2	2370.2	2370.2	2370.2
2.5°	2391.3	2348.4	2253.3	2188.7	2167.0
5°	2391.3	2257.2	2050.6	1963.3	1926.5
7.5°	2376.8	2141.4	1912.0	1874.2	1850.3
10°	2375.7	2017.8	1841.3	1809.6	1802.9
12.5°	2372.9	1949.3	1786.8	1899.2	1959.9
15°	2355.7	1881.4	1801.8	2206.5	2342.3
17.5°	2352.9	1830.8	1984.4	2496.5	2553.8
20°	2335.6	1790.7	2268.8	2459.8	2257.7
22.5°	2324.5	1762.9	2452.0	1978.8	1703.9
25°	2308.9	1796.3	2307.3	1573.1	1451.1
27.5°	2291.1	1903.7	1912.6	1369.3	1288.6
30°	2271.1	2071.8	1499.6	1196.8	1084.9
32.5°	2251.0	2194.8	1276.4	982.5	851.1
35°	2223.8	2144.2	1093.8	781.5	721.4
37.5°	2198.2	1910.4	927.4	674.6	657.4
40°	2169.8	1539.1	744.8	632.3	650.1
42.5°	2145.8	1220.1	625.7	627.9	671.9
45°	2123.0	969.7	564.4	644.0	700.2
47.5°	2109.6	770.9	539.9	663.5	708.6
50°	2089.1	617.9	531.0	667.4	692.5
52.5°	2045.6	509.3	528.2	646.8	664.1
55°	1949.9	431.9	520.5	623.4	665.2
57.5°	1773.4	384.1	502.6	628.4	692.5
60°	1515.2	346.8	484.8	644.6	695.8
62.5°	1205.7	312.8	475.4	631.2	663.0
65°	904.0	280.5	462.0	586.1	607.8
67.5°	632.9	252.7	431.9	529.9	541.6
70°	430.3	226.0	394.7	458.1	463.1
72.5°	289.5	199.3	348.5	384.1	391.9
75°	188.7	170.9	297.2	317.3	331.2
77.5°	120.2	145.3	246.6	272.2	290.0
80°	74.6	120.2	207.6	244.4	255.5
82.5°	41.7	100.2	179.8	218.2	224.3
85°	20.0	84.1	163.7	198.7	207.1
87.5°	5.0	71.2	144.2	164.8	164.8
90°	0.6	61.2	119.7	130.8	129.7
92.5°	0.6	54.0	104.1	111.3	109.1
95°	1.1	48.4	93.0	96.9	92.4
97.5°	1.1	45.6	85.7	82.9	76.3
100°	1.1	42.3	77.9	70.7	63.5
102.5°	1.1	37.9	71.2	62.3	56.2
105°	1.1	32.3	65.1	56.2	50.7
107.5°	1.1	25.6	58.4	51.2	46.8
110°	1.1	18.4	52.3	47.3	44.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.1	11.1	47.3	44.0	41.2
115°	1.1	3.9	42.3	40.1	37.3
117.5°	1.1	1.7	37.3	38.4	35.1
120°	1.1	1.7	31.2	36.2	33.4
122.5°	1.1	1.7	25.6	34.0	32.3
125°	1.1	1.1	19.5	31.2	30.6
127.5°	1.1	1.1	13.4	27.3	28.4
130°	1.1	1.1	6.7	22.3	25.0
132.5°	1.1	1.1	1.1	18.4	20.6
135°	1.1	1.1	1.1	13.4	16.7
137.5°	1.1	1.1	1.1	6.7	12.2
140°	1.1	1.1	1.1	1.1	5.0
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)