

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: P290136

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290136
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-L830-CD1-U
Description: 5000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH ROUND NARROW LENS AND 80 CRI 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5077.9 lumens
Efficiency: N/A
Efficacy: 148.5 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

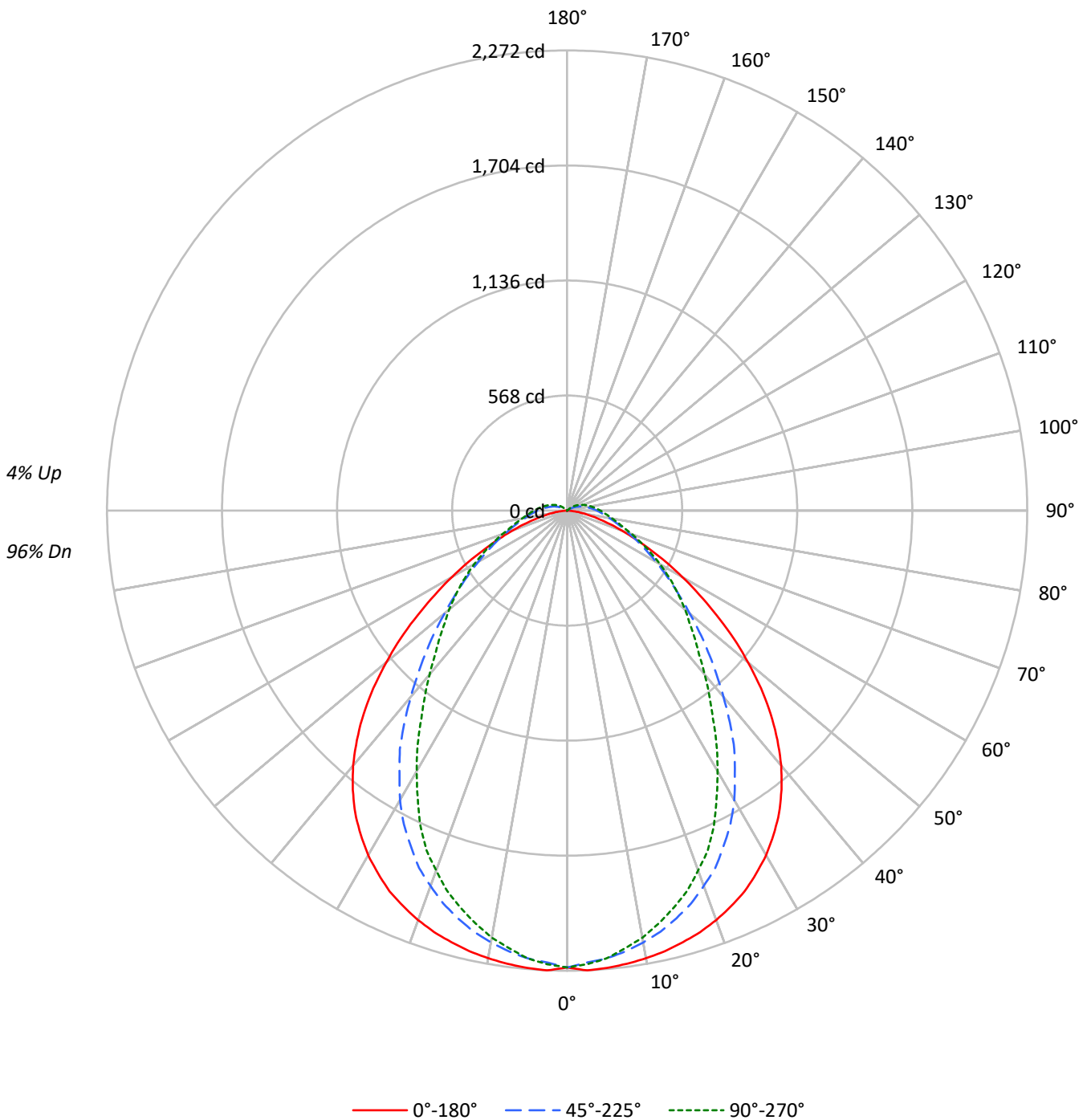
Input Watts (W): 34.1991
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	72837	72837	72837
5°	73331	57622	53301
10°	73320	47280	41165
15°	73358	39536	32755
20°	73384	33301	26464
25°	73189	27995	21321
30°	72391	23301	16734
35°	70885	18978	13026
40°	68114	14946	10234
45°	63636	11681	8132
50°	57083	9031	6622
55°	49205	7029	5379
60°	40984	5514	4325
65°	32672	4340	3416
70°	25496	3436	2685
75°	19078	2792	2138
80°	13804	2302	1772
85°	8588	1942	1511



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.8	4.2
10°-20°	593.0	11.7
20°-30°	854.6	16.8
30°-40°	925.8	18.2
40°-50°	819.9	16.1
50°-60°	623.9	12.3
60°-70°	415.7	8.2
70°-80°	256.8	5.1
80°-90°	160.9	3.2
90°-100°	105.7	2.1
100°-110°	64.8	1.3
110°-120°	33.4	0.7
120°-130°	11.0	0.2
130°-140°	0.7	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°	1659.4	32.7
0°-40°	2585.2	50.9
0°-60°	4029.0	79.3
0°-90°	4862.4	95.8
90°-120°	203.9	4.0
90°-150°	215.6	4.2
90°-180°	216.0	4.3
0°-180°	5077.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2256	2256	2256	2256	2256	
5°	2266	2252	2220	2228	2220	216
15°	2207	2165	2084	2056	2030	623
25°	2074	1977	1827	1749	1715	954
35°	1824	1654	1440	1304	1256	1137
45°	1422	1200	983	908	890	1091
55°	900	735	632	640	641	808
65°	447	392	403	426	428	451
75°	165	201	260	277	273	182
85°	29	103	176	194	190	35
90°	1	75	146	165	164	2
95°	3	53	121	140	140	2
105°	2	21	76	97	99	2
115°	2	2	39	60	66	2
125°	1	1	1	26	33	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°	2255.6	2255.6	2255.6	2255.6	2255.6
2.5°	2272.3	2259.8	2234.1	2249.0	2241.9
5°	2266.4	2252.0	2219.8	2228.1	2219.8
7.5°	2256.8	2238.9	2195.9	2199.5	2179.8
10°	2244.3	2220.4	2164.8	2158.9	2140.9
12.5°	2228.1	2194.7	2129.6	2105.7	2088.4
15°	2206.6	2164.8	2083.6	2055.6	2029.9
17.5°	2182.2	2128.4	2034.1	2000.0	1969.6
20°	2151.7	2084.2	1971.9	1924.8	1891.3
22.5°	2114.7	2035.8	1910.4	1841.8	1814.9
25°	2074.1	1976.7	1827.4	1749.2	1714.6
27.5°	2020.9	1911.6	1745.6	1647.7	1598.1
30°	1964.8	1834.6	1650.7	1537.8	1485.2
32.5°	1897.3	1750.4	1540.8	1420.7	1374.1
35°	1824.4	1653.6	1439.8	1304.3	1255.9
37.5°	1738.4	1549.1	1319.8	1195.6	1153.2
40°	1644.1	1435.7	1200.4	1091.1	1057.6
42.5°	1536.6	1320.4	1088.1	993.7	965.1
45°	1422.5	1199.8	983.0	908.3	890.4
47.5°	1298.3	1079.1	884.4	831.3	818.2
50°	1164.5	958.5	788.9	759.6	760.2
52.5°	1037.3	844.4	707.7	699.9	698.1
55°	900.0	734.6	631.8	639.6	641.4
57.5°	775.8	632.4	567.3	581.7	583.5
60°	657.5	541.1	505.8	527.9	530.9
62.5°	549.4	462.8	453.3	476.0	475.4
65°	446.7	391.8	403.1	426.4	428.2
67.5°	359.5	333.8	361.3	381.6	380.4
70°	285.5	281.9	320.7	342.2	341.0
72.5°	222.2	238.3	289.0	307.6	302.8
75°	164.8	200.7	259.8	277.1	272.9
77.5°	121.2	169.6	234.1	250.8	247.8
80°	83.0	143.9	212.0	229.3	225.7
82.5°	53.2	122.4	192.9	209.6	207.2
85°	28.7	103.3	175.6	193.5	190.5
87.5°	10.7	87.8	160.0	178.0	176.8
90°	1.2	75.2	146.3	164.8	163.6
92.5°	1.8	63.9	133.2	152.3	152.3
95°	3.0	53.2	121.2	140.3	139.7
97.5°	2.4	44.8	108.1	129.0	129.0
100°	2.4	37.0	96.1	117.1	118.2
102.5°	2.4	29.3	86.0	106.3	108.7
105°	1.8	20.9	75.8	96.7	99.1
107.5°	1.8	11.9	65.7	87.8	90.8
110°	1.8	3.0	56.7	78.2	81.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.8	1.8	47.8	69.3	72.9
115°	1.8	1.8	38.8	60.3	65.7
117.5°	1.2	1.2	28.7	52.6	57.3
120°	1.2	1.2	17.9	44.2	49.0
122.5°	1.2	1.2	7.8	35.2	41.8
125°	1.2	1.2	1.2	26.3	32.8
127.5°	1.2	1.2	0.6	15.5	23.3
130°	1.2	1.2	0.6	6.0	14.3
132.5°	1.2	1.2	0.6	0.6	4.2
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)