

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: P290128

Luminaire Tested: **8SSRK-LN-40-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290128
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-40-L830-CD1-U
Description: 4000 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: 4033.6 lumens
Efficiency: N/A
Efficacy: 149.3 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

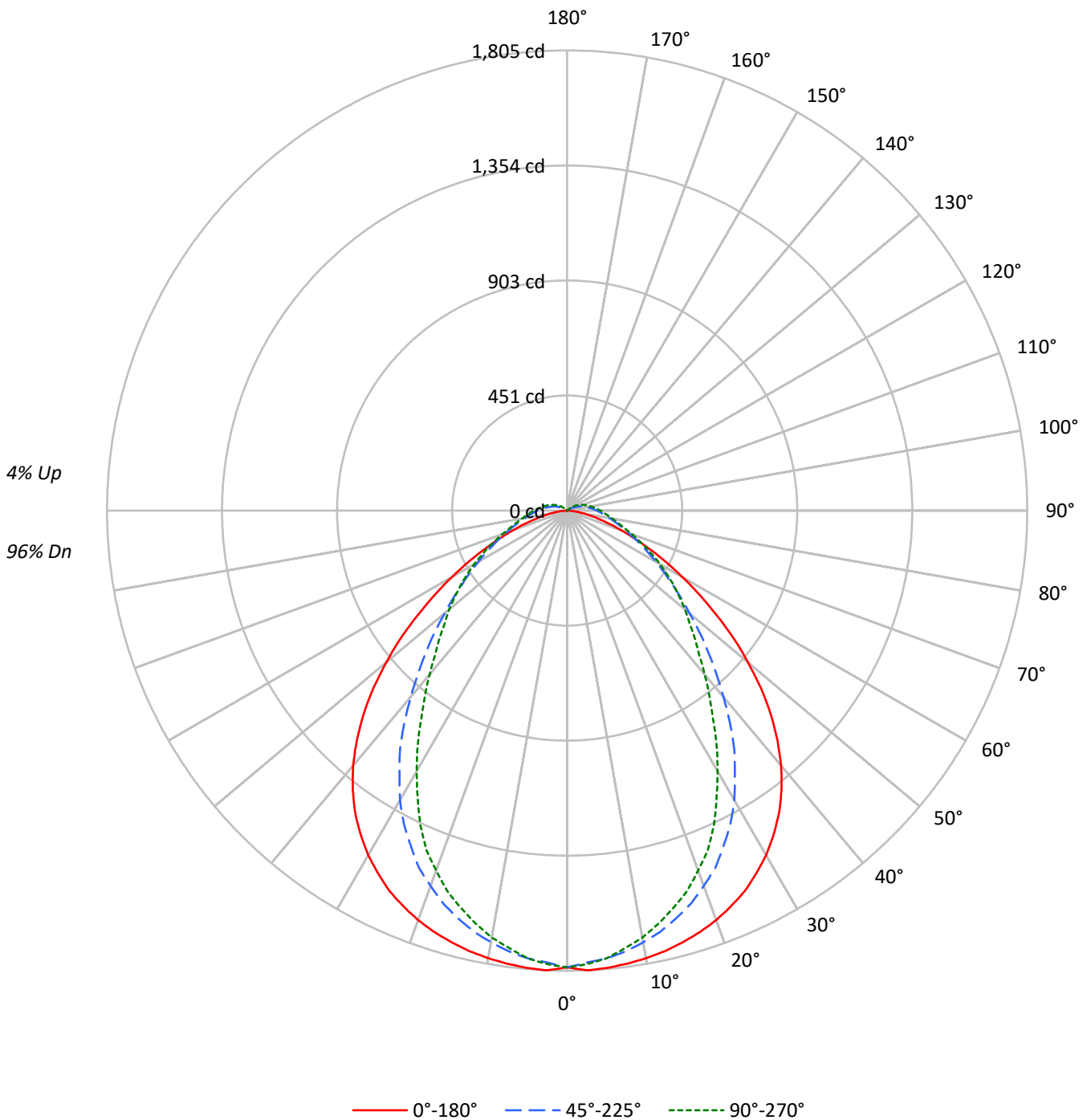
Input Watts (W): 27.0151
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	57857	57857	57857
5°	58250	45772	42340
10°	58240	37557	32699
15°	58272	31406	26018
20°	58293	26453	21022
25°	58135	22238	16936
30°	57502	18509	13293
35°	56307	15075	10347
40°	54107	11872	8129
45°	50551	9278	6460
50°	45343	7174	5261
55°	39085	5584	4273
60°	32557	4380	3435
65°	25950	3447	2713
70°	20254	2729	2133
75°	15153	2218	1698
80°	10960	1829	1408
85°	6823	1543	1200



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.2	4.2
10°-20°	471.0	11.7
20°-30°	678.9	16.8
30°-40°	735.4	18.2
40°-50°	651.3	16.1
50°-60°	495.6	12.3
60°-70°	330.2	8.2
70°-80°	204.0	5.1
80°-90°	127.8	3.2
90°-100°	84.0	2.1
100°-110°	51.4	1.3
110°-120°	26.5	0.7
120°-130°	8.7	0.2
130°-140°	0.5	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°	1318.1	32.7
0°-40°	2053.5	50.9
0°-60°	3200.4	79.3
0°-90°	3862.4	95.8
90°-120°	162.0	4.0
90°-150°	171.2	4.2
90°-180°	171.0	4.2
0°-180°	4033.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1792	1792	1792	1792	1792	
5°	1800	1789	1763	1770	1763	171
15°	1753	1720	1655	1633	1612	495
25°	1648	1570	1452	1390	1362	758
35°	1449	1314	1144	1036	998	903
45°	1130	953	781	722	707	867
55°	715	584	502	508	510	642
65°	355	311	320	339	340	358
75°	131	159	206	220	217	145
85°	23	82	140	154	151	28
90°	1	60	116	131	130	2
95°	2	42	96	112	111	2
105°	1	17	60	77	79	2
115°	1	1	31	48	52	1
125°	1	1	1	21	26	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°	1791.7	1791.7	1791.7	1791.7	1791.7
2.5°	1805.0	1795.0	1774.6	1786.5	1780.8
5°	1800.3	1788.9	1763.3	1769.9	1763.3
7.5°	1792.7	1778.4	1744.3	1747.1	1731.5
10°	1782.7	1763.7	1719.6	1714.9	1700.6
12.5°	1769.9	1743.3	1691.6	1672.7	1658.9
15°	1752.8	1719.6	1655.1	1632.8	1612.4
17.5°	1733.4	1690.7	1615.7	1588.7	1564.5
20°	1709.2	1655.6	1566.4	1528.9	1502.4
22.5°	1679.8	1617.2	1517.5	1463.0	1441.6
25°	1647.5	1570.2	1451.6	1389.5	1361.9
27.5°	1605.3	1518.5	1386.6	1308.8	1269.4
30°	1560.7	1457.3	1311.2	1221.5	1179.8
32.5°	1507.1	1390.4	1223.9	1128.5	1091.5
35°	1449.2	1313.6	1143.7	1036.0	997.6
37.5°	1380.9	1230.5	1048.4	949.7	916.0
40°	1306.0	1140.4	953.5	866.7	840.1
42.5°	1220.6	1048.9	864.3	789.4	766.6
45°	1130.0	953.0	780.8	721.5	707.3
47.5°	1031.3	857.2	702.6	660.3	649.9
50°	925.0	761.4	626.7	603.4	603.9
52.5°	824.0	670.8	562.1	556.0	554.5
55°	714.9	583.5	501.9	508.1	509.5
57.5°	616.2	502.4	450.7	462.0	463.5
60°	522.3	429.8	401.8	419.4	421.7
62.5°	436.4	367.6	360.1	378.1	377.6
65°	354.8	311.2	320.2	338.7	340.1
67.5°	285.6	265.2	287.0	303.1	302.2
70°	226.8	223.9	254.7	271.8	270.9
72.5°	176.5	189.3	229.6	244.3	240.5
75°	130.9	159.4	206.4	220.1	216.8
77.5°	96.3	134.7	186.0	199.2	196.9
80°	65.9	114.3	168.4	182.2	179.3
82.5°	42.2	97.2	153.2	166.5	164.6
85°	22.8	82.1	139.5	153.7	151.3
87.5°	8.5	69.7	127.1	141.4	140.4
90°	0.9	59.8	116.2	130.9	130.0
92.5°	1.4	50.8	105.8	121.0	121.0
95°	2.4	42.2	96.3	111.5	111.0
97.5°	1.9	35.6	85.9	102.5	102.5
100°	1.9	29.4	76.4	93.0	93.9
102.5°	1.9	23.2	68.3	84.4	86.3
105°	1.4	16.6	60.2	76.8	78.7
107.5°	1.4	9.5	52.2	69.7	72.1
110°	1.4	2.4	45.1	62.1	65.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.4	1.4	38.0	55.0	57.9
115°	1.4	1.4	30.8	47.9	52.2
117.5°	0.9	0.9	22.8	41.7	45.5
120°	0.9	0.9	14.2	35.1	38.9
122.5°	0.9	0.9	6.2	28.0	33.2
125°	0.9	0.9	0.9	20.9	26.1
127.5°	0.9	0.9	0.5	12.3	18.5
130°	0.9	0.9	0.5	4.7	11.4
132.5°	0.9	0.9	0.5	0.5	3.3
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)