

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: P290104

Luminaire Tested: **4SSRK-LN-40-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290104
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: 4SSRK-LN-40-L830-CD1-U
Description: 4000 LUMEN, 4 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: 4060.2 lumens
Efficiency: N/A
Efficacy: 146.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.03 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')
CIE Type: Direct

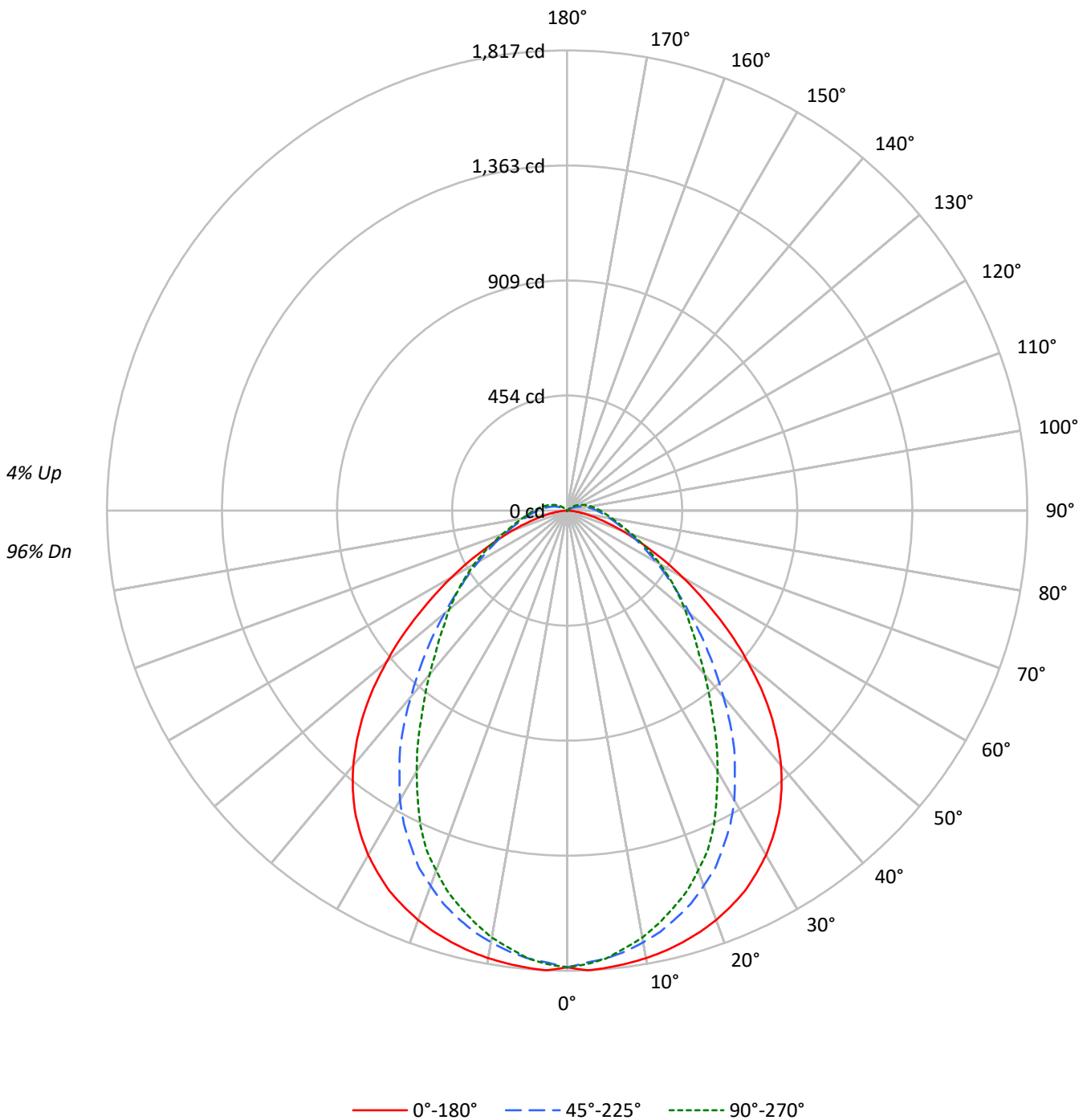
Input Watts (W): 27.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0		
RCR																										
0	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	98	98	98	98	98	98	96		
1	108	104	99	96	105	101	97	94	96	93	90	91	89	86	87	85	83	87	85	83	87	85	83	81		
2	99	91	85	80	96	89	83	78	85	80	76	81	77	74	78	74	71	78	74	71	78	74	71	69		
3	91	81	74	68	88	79	72	67	76	70	65	73	68	63	70	65	62	70	65	62	70	65	62	59		
4	84	73	65	58	81	71	64	58	68	62	56	65	60	55	63	58	54	63	58	54	63	58	54	52		
5	78	66	57	51	75	64	56	51	62	55	50	59	53	49	57	52	48	57	52	48	57	52	48	46		
6	72	60	51	45	70	58	51	45	56	49	44	54	48	43	52	47	43	52	47	43	52	47	43	41		
7	67	54	46	40	65	53	46	40	52	45	39	50	44	39	48	43	38	48	43	38	48	43	38	36		
8	63	50	42	36	61	49	41	36	47	41	36	46	40	35	44	39	35	44	39	35	44	39	35	33		
9	59	46	38	33	57	45	38	33	44	37	32	43	36	32	41	36	32	41	36	32	41	36	32	30		
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	38	33	29	38	33	29	38	33	29	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	116475	116475	116475
5°	117051	92051	85237
10°	116817	75477	65829
15°	116667	63084	52378
20°	116473	53114	42319
25°	115924	44635	34095
30°	114404	37141	26759
35°	111753	30243	20830
40°	107086	23813	16365
45°	99728	18608	13006
50°	89125	14385	10591
55°	76474	11194	8602
60°	63332	8779	6916
65°	50109	6909	5463
70°	38664	5469	4295
75°	28462	4443	3418
80°	19975	3663	2834
85°	11495	3090	2416



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.3	4.2
10°-20°	474.1	11.7
20°-30°	683.3	16.8
30°-40°	740.2	18.2
40°-50°	655.6	16.1
50°-60°	498.8	12.3
60°-70°	332.4	8.2
70°-80°	205.3	5.1
80°-90°	128.7	3.2
90°-100°	84.5	2.1
100°-110°	51.8	1.3
110°-120°	26.7	0.7
120°-130°	8.8	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°	1326.8	32.7
0°-40°	2067.0	50.9
0°-60°	3221.4	79.3
0°-90°	3887.8	95.8
90°-120°	163.1	4.0
90°-150°	172.4	4.2
90°-180°	172.0	4.2
0°-180°	4060.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1804	1804	1804	1804	1804	
5°	1812	1801	1775	1782	1775	172
15°	1764	1731	1666	1644	1623	498
25°	1658	1580	1461	1399	1371	763
35°	1459	1322	1151	1043	1004	909
45°	1137	959	786	726	712	872
55°	720	587	505	511	513	646
65°	357	313	322	341	342	361
75°	132	160	208	222	218	146
85°	23	83	140	155	152	28
90°	1	60	117	132	131	2
95°	2	42	97	112	112	2
105°	1	17	61	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°	1803.5	1803.5	1803.5	1803.5	1803.5
2.5°	1816.9	1806.9	1786.3	1798.3	1792.5
5°	1812.1	1800.6	1774.9	1781.5	1774.9
7.5°	1804.5	1790.1	1755.8	1758.6	1742.9
10°	1794.4	1775.3	1730.9	1726.2	1711.8
12.5°	1781.5	1754.8	1702.8	1683.7	1669.8
15°	1764.4	1730.9	1666.0	1643.5	1623.0
17.5°	1744.8	1701.8	1626.4	1599.1	1574.8
20°	1720.4	1666.5	1576.7	1539.0	1512.2
22.5°	1690.8	1627.8	1527.5	1472.6	1451.1
25°	1658.4	1580.5	1461.1	1398.6	1370.9
27.5°	1615.9	1528.5	1395.7	1317.4	1277.8
30°	1571.0	1466.9	1319.8	1229.6	1187.5
32.5°	1517.0	1399.5	1231.9	1136.0	1098.7
35°	1458.8	1322.2	1151.2	1042.9	1004.2
37.5°	1390.0	1238.6	1055.3	956.0	922.0
40°	1314.6	1147.9	959.8	872.4	845.6
42.5°	1228.6	1055.7	870.0	794.6	771.6
45°	1137.4	959.3	786.0	726.3	712.0
47.5°	1038.1	862.8	707.2	664.7	654.2
50°	931.1	766.4	630.8	607.4	607.9
52.5°	829.4	675.2	565.8	559.6	558.2
55°	719.6	587.3	505.2	511.4	512.8
57.5°	620.3	505.7	453.6	465.1	466.5
60°	525.7	432.6	404.4	422.1	424.5
62.5°	439.3	370.1	362.4	380.6	380.1
65°	357.2	313.2	322.3	340.9	342.4
67.5°	287.5	266.9	288.9	305.1	304.2
70°	228.2	225.4	256.4	273.6	272.7
72.5°	177.6	190.5	231.1	245.9	242.1
75°	131.8	160.4	207.7	221.6	218.2
77.5°	96.9	135.6	187.2	200.5	198.2
80°	66.4	115.1	169.5	183.4	180.5
82.5°	42.5	97.9	154.2	167.6	165.7
85°	22.9	82.6	140.4	154.7	152.3
87.5°	8.6	70.2	128.0	142.3	141.3
90°	1.0	60.2	117.0	131.8	130.8
92.5°	1.4	51.1	106.5	121.8	121.8
95°	2.4	42.5	96.9	112.2	111.7
97.5°	1.9	35.8	86.4	103.1	103.1
100°	1.9	29.6	76.9	93.6	94.5
102.5°	1.9	23.4	68.8	85.0	86.9
105°	1.4	16.7	60.6	77.4	79.3
107.5°	1.4	9.5	52.5	70.2	72.6
110°	1.4	2.4	45.4	62.6	65.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.4	1.4	38.2	55.4	58.3
115°	1.4	1.4	31.0	48.2	52.5
117.5°	1.0	1.0	22.9	42.0	45.8
120°	1.0	1.0	14.3	35.3	39.2
122.5°	1.0	1.0	6.2	28.2	33.4
125°	1.0	1.0	1.0	21.0	26.3
127.5°	1.0	1.0	0.5	12.4	18.6
130°	1.0	1.0	0.5	4.8	11.5
132.5°	1.0	1.0	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)