

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: P290125

Luminaire Tested: **8SSRK-LN-40-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290125
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-L935-CD1-U
Description: 4000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH ROUND NARROW LENS AND 90 CRI 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3446.7 lumens
Efficiency: N/A
Efficacy: 127.6 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

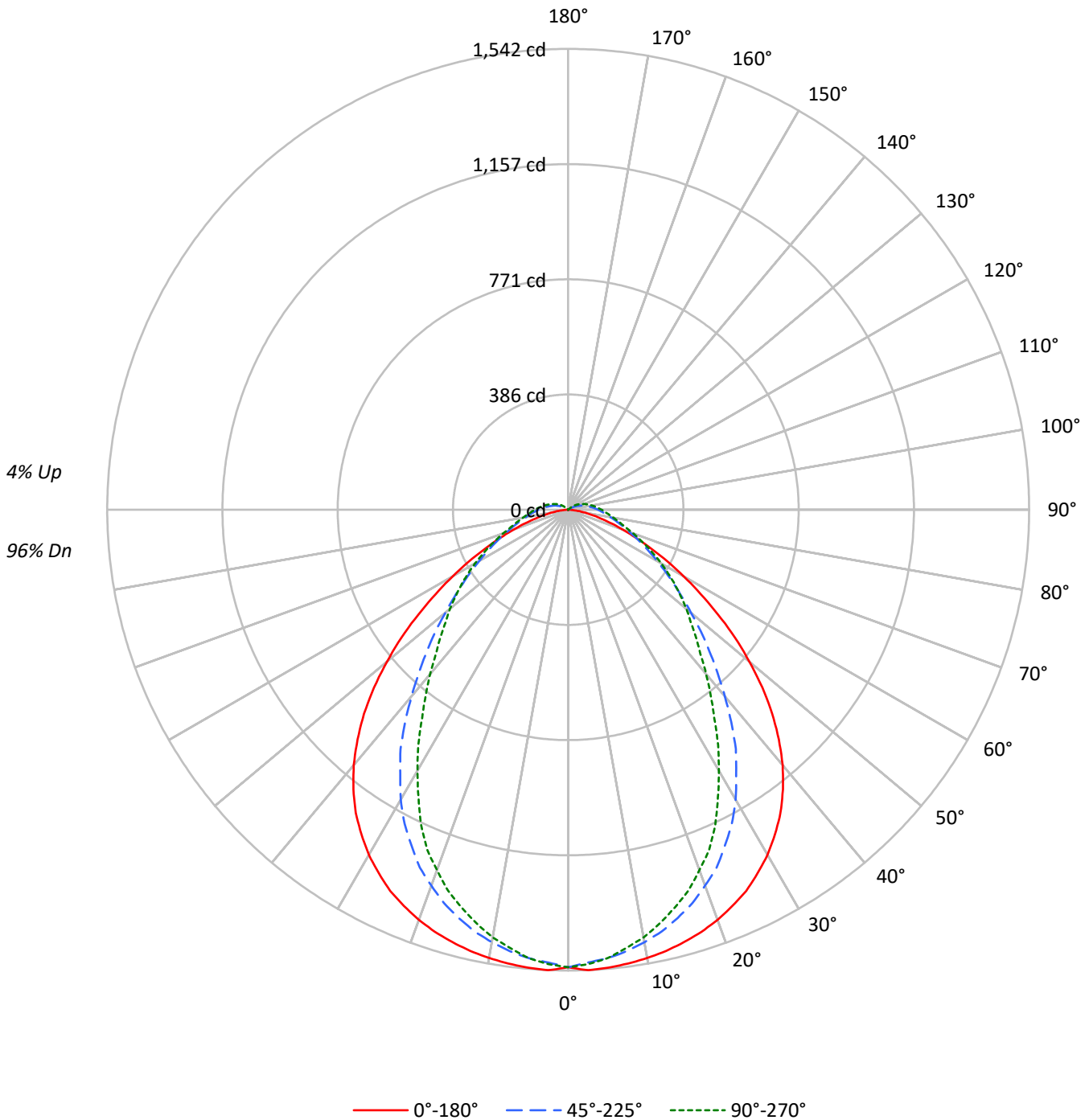
Input Watts (W): 27.0151
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	49438	49438	49438
5°	49773	39111	36179
10°	49766	32092	27942
15°	49794	26836	22232
20°	49811	22604	17962
25°	49677	19002	14472
30°	49135	15815	11358
35°	48113	12881	8842
40°	46231	10145	6947
45°	43192	7928	5520
50°	38745	6130	4495
55°	33399	4772	3651
60°	27820	3742	2936
65°	22176	2946	2318
70°	17307	2333	1823
75°	12954	1894	1451
80°	9363	1563	1203
85°	5835	1318	1025



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.7	4.2
10°-20°	402.5	11.7
20°-30°	580.1	16.8
30°-40°	628.4	18.2
40°-50°	556.5	16.1
50°-60°	423.5	12.3
60°-70°	282.1	8.2
70°-80°	174.3	5.1
80°-90°	109.2	3.2
90°-100°	71.8	2.1
100°-110°	44.0	1.3
110°-120°	22.7	0.7
120°-130°	7.4	0.2
130°-140°	0.4	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°	1126.3	32.7
0°-40°	1754.7	50.9
0°-60°	2734.7	79.3
0°-90°	3300.4	95.8
90°-120°	138.4	4.0
90°-150°	146.3	4.2
90°-180°	146.0	4.2
0°-180°	3446.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1531	1531	1531	1531	1531	
5°	1538	1529	1507	1512	1507	146
15°	1498	1469	1414	1395	1378	423
25°	1408	1342	1240	1187	1164	648
35°	1238	1122	977	885	852	772
45°	966	814	667	616	604	741
55°	611	499	429	434	435	549
65°	303	266	274	289	291	306
75°	112	136	176	188	185	124
85°	20	70	119	131	129	24
90°	1	51	99	112	111	1
95°	2	36	82	95	95	1
105°	1	14	52	66	67	1
115°	1	1	26	41	45	1
125°	1	1	1	18	22	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°	1531.0	1531.0	1531.0	1531.0	1531.0
2.5°	1542.4	1533.9	1516.4	1526.6	1521.7
5°	1538.3	1528.6	1506.7	1512.4	1506.7
7.5°	1531.8	1519.7	1490.5	1492.9	1479.5
10°	1523.3	1507.1	1469.4	1465.3	1453.2
12.5°	1512.4	1489.7	1445.5	1429.3	1417.5
15°	1497.8	1469.4	1414.3	1395.2	1377.8
17.5°	1481.2	1444.7	1380.6	1357.5	1336.8
20°	1460.5	1414.7	1338.5	1306.4	1283.7
22.5°	1435.4	1381.8	1296.7	1250.1	1231.9
25°	1407.8	1341.7	1240.4	1187.3	1163.8
27.5°	1371.7	1297.5	1184.8	1118.4	1084.7
30°	1333.6	1245.2	1120.4	1043.8	1008.1
32.5°	1287.8	1188.1	1045.8	964.3	932.7
35°	1238.3	1122.4	977.3	885.3	852.5
37.5°	1180.0	1051.5	895.8	811.5	782.7
40°	1115.9	974.5	814.8	740.6	717.9
42.5°	1043.0	896.2	738.6	674.5	655.0
45°	965.5	814.4	667.2	616.5	604.4
47.5°	881.2	732.5	600.3	564.2	555.3
50°	790.4	650.6	535.5	515.6	516.0
52.5°	704.1	573.2	480.3	475.1	473.9
55°	610.9	498.6	428.9	434.1	435.3
57.5°	526.6	429.3	385.1	394.8	396.0
60°	446.3	367.2	343.3	358.3	360.4
62.5°	372.9	314.1	307.7	323.1	322.7
65°	303.2	265.9	273.6	289.4	290.6
67.5°	244.0	226.6	245.2	259.0	258.2
70°	193.8	191.3	217.7	232.3	231.5
72.5°	150.8	161.7	196.2	208.8	205.5
75°	111.9	136.2	176.3	188.1	185.2
77.5°	82.3	115.1	158.9	170.2	168.2
80°	56.3	97.7	143.9	155.7	153.2
82.5°	36.1	83.1	130.9	142.3	140.7
85°	19.5	70.1	119.2	131.3	129.3
87.5°	7.3	59.6	108.6	120.8	120.0
90°	0.8	51.1	99.3	111.9	111.1
92.5°	1.2	43.4	90.4	103.4	103.4
95°	2.0	36.1	82.3	95.3	94.9
97.5°	1.6	30.4	73.4	87.6	87.6
100°	1.6	25.1	65.3	79.4	80.3
102.5°	1.6	19.9	58.4	72.2	73.8
105°	1.2	14.2	51.5	65.7	67.3
107.5°	1.2	8.1	44.6	59.6	61.6
110°	1.2	2.0	38.5	53.1	55.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.2	1.2	32.4	47.0	49.5
115°	1.2	1.2	26.3	40.9	44.6
117.5°	0.8	0.8	19.5	35.7	38.9
120°	0.8	0.8	12.2	30.0	33.2
122.5°	0.8	0.8	5.3	23.9	28.4
125°	0.8	0.8	0.8	17.8	22.3
127.5°	0.8	0.8	0.4	10.5	15.8
130°	0.8	0.8	0.4	4.1	9.7
132.5°	0.8	0.8	0.4	0.4	2.8
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)