

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: P290101

Luminaire Tested: **4SSRK-LN-40-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290101
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-L935-CD1-U
Description: 4000 LUMEN, 4 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: 3469.3 lumens
Efficiency: N/A
Efficacy: 125.2 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

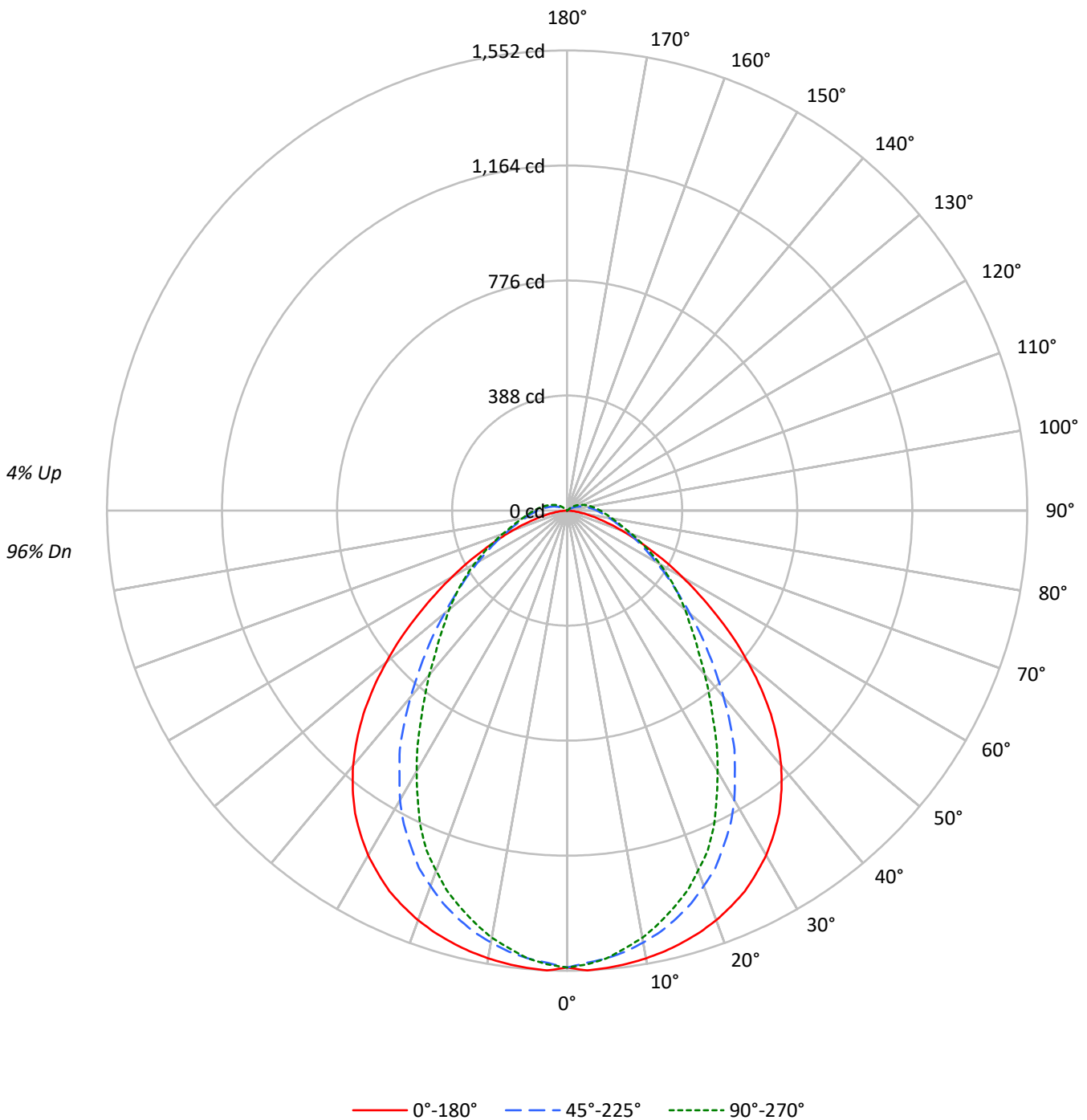
Input Watts (W): 27.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	99529	99529	99529
5°	100018	78655	72833
10°	99819	64497	56250
15°	99687	53905	44758
20°	99527	45387	36162
25°	99050	38140	29133
30°	97756	31738	22865
35°	95490	25843	17800
40°	91503	20347	13984
45°	85217	15900	11114
50°	76155	12292	9049
55°	65347	9566	7350
60°	54116	7503	5909
65°	42814	5904	4667
70°	33039	4674	3670
75°	24316	3797	2922
80°	17057	3130	2421
85°	9838	2641	2065



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.7	4.2
10°-20°	405.2	11.7
20°-30°	583.9	16.8
30°-40°	632.5	18.2
40°-50°	560.2	16.1
50°-60°	426.3	12.3
60°-70°	284.0	8.2
70°-80°	175.5	5.1
80°-90°	109.9	3.2
90°-100°	72.2	2.1
100°-110°	44.3	1.3
110°-120°	22.8	0.7
120°-130°	7.5	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°	1133.7	32.7
0°-40°	1766.2	50.9
0°-60°	2752.7	79.3
0°-90°	3322.1	95.8
90°-120°	139.3	4.0
90°-150°	147.3	4.2
90°-180°	147.0	4.2
0°-180°	3469.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1541	1541	1541	1541	1541	
5°	1548	1539	1517	1522	1517	147
15°	1508	1479	1424	1404	1387	426
25°	1417	1350	1248	1195	1171	652
35°	1246	1130	984	891	858	777
45°	972	820	672	621	608	745
55°	615	502	432	437	438	552
65°	305	268	275	291	292	308
75°	113	137	178	189	186	125
85°	20	71	120	132	130	24
90°	1	51	100	113	112	1
95°	2	36	83	96	96	1
105°	1	14	52	66	68	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°	1541.1	1541.1	1541.1	1541.1	1541.1
2.5°	1552.5	1543.9	1526.4	1536.6	1531.7
5°	1548.4	1538.6	1516.6	1522.3	1516.6
7.5°	1541.9	1529.7	1500.3	1502.7	1489.3
10°	1533.3	1517.0	1479.1	1475.0	1462.7
12.5°	1522.3	1499.5	1455.0	1438.7	1426.8
15°	1507.6	1479.1	1423.6	1404.4	1386.9
17.5°	1490.9	1454.2	1389.7	1366.5	1345.6
20°	1470.1	1424.0	1347.3	1315.0	1292.2
22.5°	1444.8	1390.9	1305.2	1258.3	1240.0
25°	1417.0	1350.5	1248.5	1195.1	1171.4
27.5°	1380.7	1306.1	1192.6	1125.7	1091.9
30°	1342.4	1253.4	1127.8	1050.6	1014.7
32.5°	1296.3	1195.9	1052.7	970.7	938.8
35°	1246.5	1129.8	983.7	891.1	858.1
37.5°	1187.7	1058.4	901.7	816.9	787.9
40°	1123.3	980.9	820.1	745.4	722.6
42.5°	1049.8	902.1	743.4	678.9	659.4
45°	971.9	819.7	671.6	620.6	608.4
47.5°	887.0	737.3	604.3	568.0	559.0
50°	795.6	654.9	539.0	519.0	519.4
52.5°	708.7	576.9	483.5	478.2	477.0
55°	614.9	501.9	431.7	437.0	438.2
57.5°	530.0	432.1	387.6	397.4	398.6
60°	449.2	369.7	345.6	360.7	362.7
62.5°	375.4	316.2	309.7	325.2	324.8
65°	305.2	267.7	275.4	291.3	292.5
67.5°	245.6	228.1	246.9	260.7	259.9
70°	195.0	192.6	219.1	233.8	233.0
72.5°	151.8	162.8	197.5	210.1	206.9
75°	112.6	137.1	177.5	189.3	186.5
77.5°	82.8	115.9	159.9	171.4	169.3
80°	56.7	98.3	144.8	156.7	154.2
82.5°	36.3	83.6	131.8	143.2	141.6
85°	19.6	70.6	120.0	132.2	130.2
87.5°	7.3	60.0	109.3	121.6	120.8
90°	0.8	51.4	100.0	112.6	111.8
92.5°	1.2	43.7	91.0	104.0	104.0
95°	2.0	36.3	82.8	95.9	95.5
97.5°	1.6	30.6	73.9	88.1	88.1
100°	1.6	25.3	65.7	80.0	80.8
102.5°	1.6	20.0	58.8	72.6	74.3
105°	1.2	14.3	51.8	66.1	67.7
107.5°	1.2	8.2	44.9	60.0	62.0
110°	1.2	2.0	38.8	53.5	55.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.2	1.2	32.6	47.3	49.8
115°	1.2	1.2	26.5	41.2	44.9
117.5°	0.8	0.8	19.6	35.9	39.2
120°	0.8	0.8	12.2	30.2	33.5
122.5°	0.8	0.8	5.3	24.1	28.6
125°	0.8	0.8	0.8	18.0	22.4
127.5°	0.8	0.8	0.4	10.6	15.9
130°	0.8	0.8	0.4	4.1	9.8
132.5°	0.8	0.8	0.4	0.4	2.9
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)