

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: P290127

Luminaire Tested: **8SSRK-LN-40-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290127
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-L950-CD1-U
Description: 4000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH ROUND NARROW LENS AND 90 CRI 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3759.7 lumens
Efficiency: N/A
Efficacy: 139.2 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

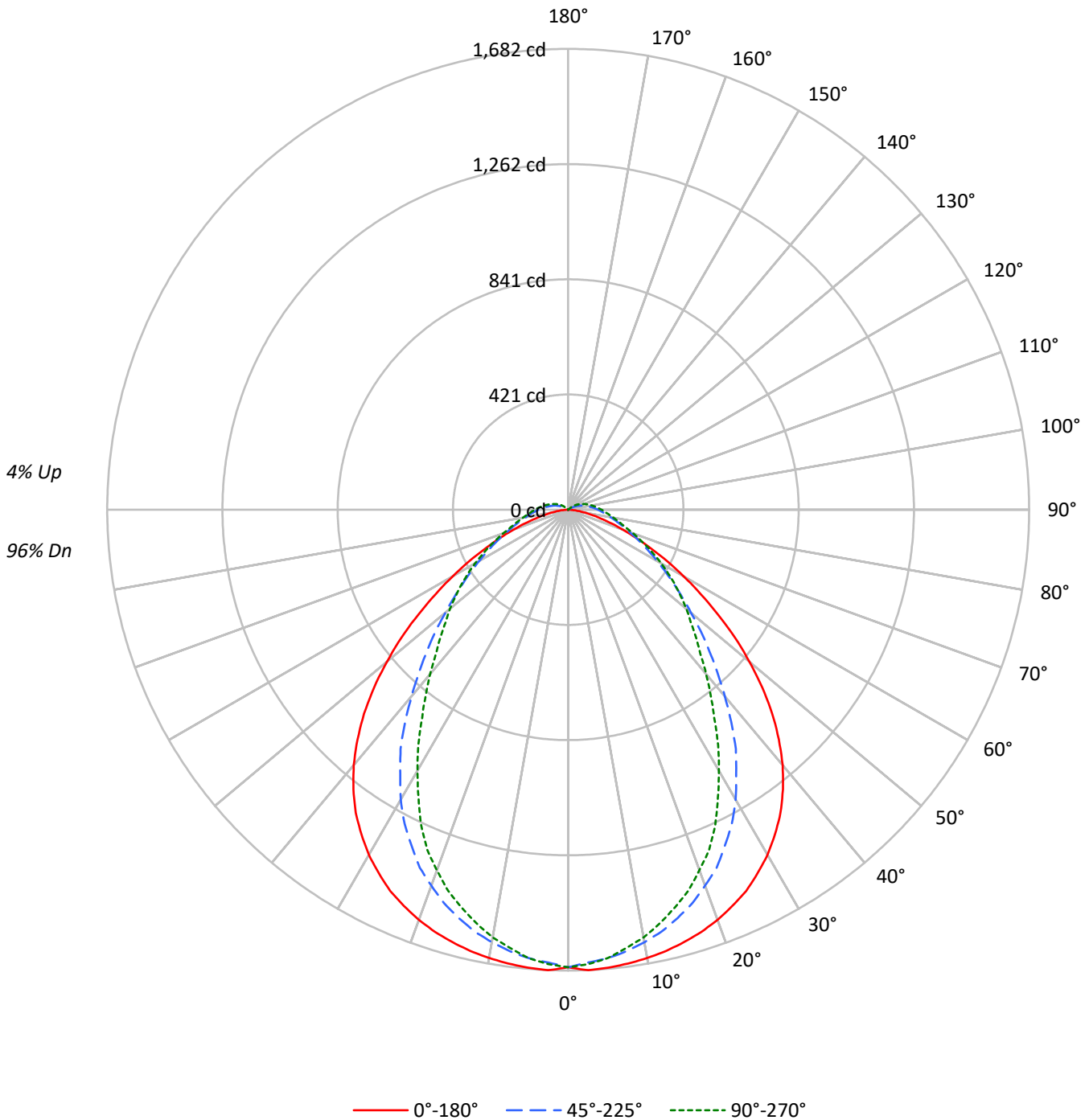
Input Watts (W): 27.0151
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	53927	53927	53927
5°	54293	42662	39463
10°	54284	35006	30478
15°	54316	29273	24251
20°	54333	24656	19594
25°	54187	20727	15785
30°	53597	17251	12390
35°	52484	14051	9645
40°	50432	11065	7577
45°	47115	8648	6022
50°	42265	6687	4903
55°	36428	5204	3983
60°	30344	4082	3202
65°	24188	3214	2529
70°	18879	2544	1988
75°	14123	2066	1583
80°	10228	1705	1312
85°	6344	1438	1118



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.8	4.2
10°-20°	439.1	11.7
20°-30°	632.8	16.8
30°-40°	685.4	18.2
40°-50°	607.1	16.1
50°-60°	461.9	12.3
60°-70°	307.8	8.2
70°-80°	190.1	5.1
80°-90°	119.1	3.2
90°-100°	78.3	2.1
100°-110°	48.0	1.3
110°-120°	24.7	0.7
120°-130°	8.1	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°	1228.6	32.7
0°-40°	1914.0	50.9
0°-60°	2983.0	79.3
0°-90°	3600.1	95.8
90°-120°	151.0	4.0
90°-150°	159.6	4.2
90°-180°	160.0	4.3
0°-180°	3759.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1670	1670	1670	1670	1670	
5°	1678	1667	1644	1650	1644	160
15°	1634	1603	1543	1522	1503	462
25°	1536	1464	1353	1295	1269	706
35°	1351	1224	1066	966	930	842
45°	1053	888	728	672	659	808
55°	666	544	468	474	475	599
65°	331	290	298	316	317	334
75°	122	149	192	205	202	135
85°	21	76	130	143	141	26
90°	1	56	108	122	121	2
95°	2	39	90	104	104	2
105°	1	16	56	72	73	2
115°	1	1	29	45	49	1
125°	1	1	1	20	24	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°	1670.0	1670.0	1670.0	1670.0	1670.0
2.5°	1682.4	1673.1	1654.1	1665.2	1659.9
5°	1678.0	1667.4	1643.5	1649.7	1643.5
7.5°	1670.9	1657.7	1625.8	1628.5	1613.9
10°	1661.6	1644.0	1602.8	1598.4	1585.1
12.5°	1649.7	1624.9	1576.7	1559.1	1546.2
15°	1633.8	1602.8	1542.7	1521.9	1502.9
17.5°	1615.7	1575.9	1506.0	1480.8	1458.2
20°	1593.1	1543.1	1460.0	1425.1	1400.3
22.5°	1565.7	1507.3	1414.5	1363.6	1343.7
25°	1535.6	1463.6	1353.0	1295.1	1269.4
27.5°	1496.3	1415.4	1292.4	1219.9	1183.2
30°	1454.7	1358.3	1222.1	1138.6	1099.7
32.5°	1404.7	1296.0	1140.8	1051.9	1017.4
35°	1350.8	1224.3	1066.0	965.7	929.9
37.5°	1287.1	1147.0	977.2	885.2	853.8
40°	1217.3	1063.0	888.7	807.8	783.1
42.5°	1137.7	977.6	805.6	735.8	714.5
45°	1053.2	888.3	727.8	672.5	659.3
47.5°	961.3	799.0	654.8	615.5	605.8
50°	862.2	709.7	584.1	562.4	562.9
52.5°	768.0	625.2	524.0	518.2	516.9
55°	666.3	543.9	467.8	473.6	474.9
57.5°	574.4	468.2	420.1	430.7	432.0
60°	486.8	400.6	374.5	390.9	393.1
62.5°	406.8	342.7	335.6	352.4	352.0
65°	330.7	290.1	298.5	315.7	317.0
67.5°	266.2	247.2	267.5	282.5	281.7
70°	211.4	208.7	237.4	253.4	252.5
72.5°	164.5	176.4	214.0	227.7	224.2
75°	122.0	148.6	192.3	205.2	202.1
77.5°	89.8	125.6	173.3	185.7	183.5
80°	61.5	106.6	157.0	169.8	167.1
82.5°	39.4	90.6	142.8	155.2	153.4
85°	21.2	76.5	130.0	143.3	141.0
87.5°	8.0	65.0	118.5	131.8	130.9
90°	0.9	55.7	108.3	122.0	121.2
92.5°	1.3	47.3	98.6	112.8	112.8
95°	2.2	39.4	89.8	103.9	103.5
97.5°	1.8	33.2	80.0	95.5	95.5
100°	1.8	27.4	71.2	86.7	87.5
102.5°	1.8	21.7	63.7	78.7	80.5
105°	1.3	15.5	56.2	71.6	73.4
107.5°	1.3	8.8	48.6	65.0	67.2
110°	1.3	2.2	42.0	57.9	60.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.3	1.3	35.4	51.3	53.9
115°	1.3	1.3	28.7	44.7	48.6
117.5°	0.9	0.9	21.2	38.9	42.4
120°	0.9	0.9	13.3	32.7	36.3
122.5°	0.9	0.9	5.7	26.1	31.0
125°	0.9	0.9	0.9	19.5	24.3
127.5°	0.9	0.9	0.4	11.5	17.2
130°	0.9	0.9	0.4	4.4	10.6
132.5°	0.9	0.9	0.4	0.4	3.1
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)