

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: P290126

Luminaire Tested: **8SSRK-LN-40-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290126
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-L940-CD1-U
Description: 4000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH ROUND NARROW LENS AND 90 CRI 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3530.1 lumens
Efficiency: N/A
Efficacy: 130.7 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

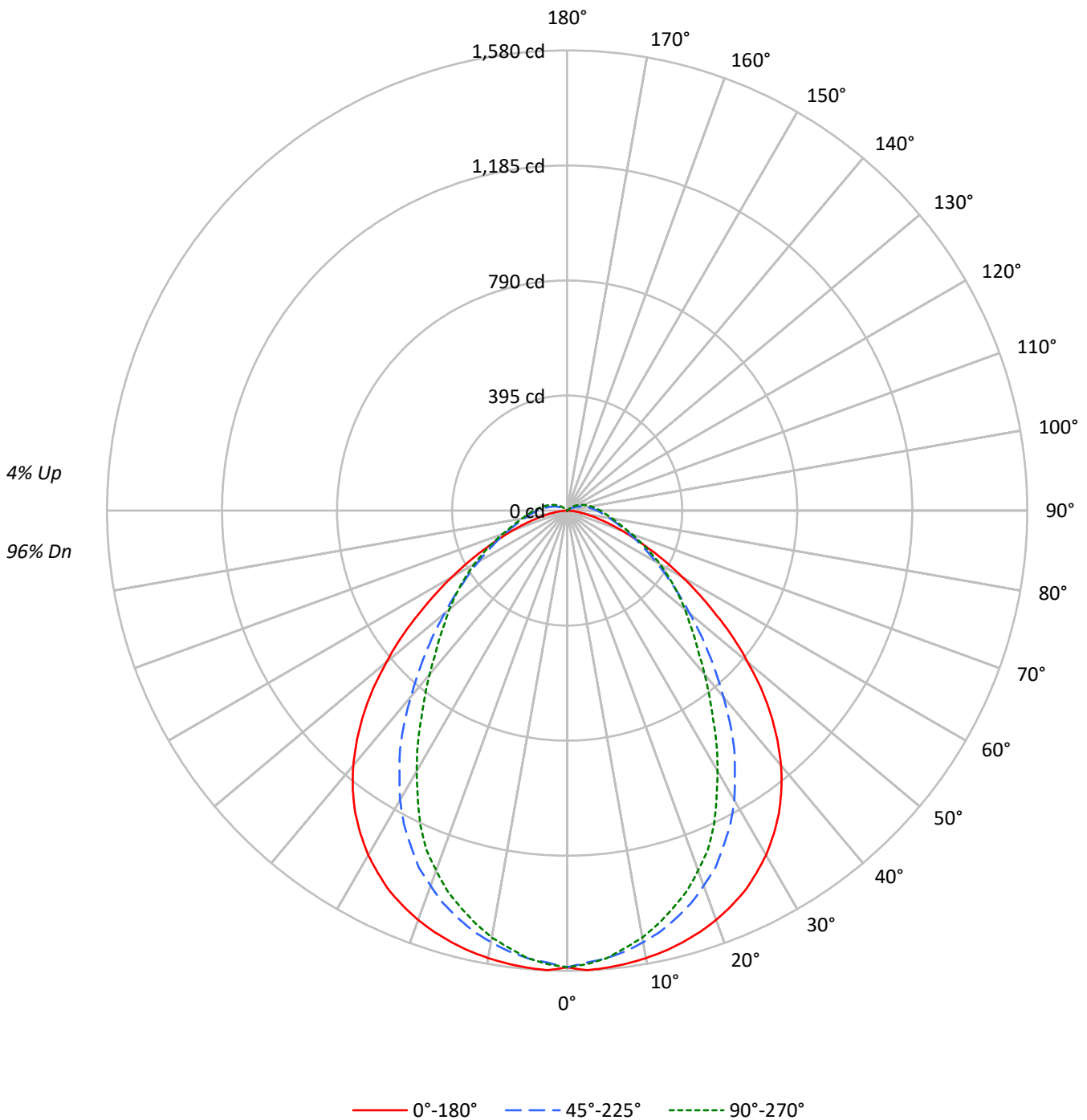
Input Watts (W): 27.0151
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	50636	50636	50636
5°	50980	40058	37055
10°	50971	32870	28619
15°	51001	27485	22771
20°	51018	23152	18397
25°	50880	19462	14823
30°	50325	16198	11633
35°	49278	13194	9055
40°	47354	10390	7115
45°	44239	8121	5654
50°	39686	6278	4604
55°	34208	4886	3740
60°	28493	3833	3007
65°	22710	3017	2375
70°	17727	2388	1867
75°	13267	1941	1486
80°	9596	1601	1232
85°	5955	1351	1050



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.2	4.2
10°-20°	412.3	11.7
20°-30°	594.1	16.8
30°-40°	643.6	18.2
40°-50°	570.0	16.1
50°-60°	433.7	12.3
60°-70°	289.0	8.2
70°-80°	178.5	5.1
80°-90°	111.9	3.2
90°-100°	73.5	2.1
100°-110°	45.0	1.3
110°-120°	23.2	0.7
120°-130°	7.6	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°	1153.6	32.7
0°-40°	1797.2	50.9
0°-60°	2800.9	79.3
0°-90°	3380.3	95.8
90°-120°	141.8	4.0
90°-150°	149.8	4.2
90°-180°	150.0	4.2
0°-180°	3530.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1568	1568	1568	1568	1568	
5°	1576	1566	1543	1549	1543	150
15°	1534	1505	1448	1429	1411	433
25°	1442	1374	1270	1216	1192	663
35°	1268	1150	1001	907	873	790
45°	989	834	683	632	619	759
55°	626	511	439	445	446	562
65°	310	272	280	296	298	314
75°	115	140	181	193	190	127
85°	20	72	122	134	132	24
90°	1	52	102	115	114	1
95°	2	37	84	98	97	1
105°	1	14	53	67	69	1
115°	1	1	27	42	46	1
125°	1	1	1	18	23	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°	1568.1	1568.1	1568.1	1568.1	1568.1
2.5°	1579.7	1571.0	1553.2	1563.5	1558.5
5°	1575.6	1565.6	1543.2	1549.0	1543.2
7.5°	1568.9	1556.5	1526.6	1529.1	1515.4
10°	1560.2	1543.6	1505.0	1500.8	1488.4
12.5°	1549.0	1525.7	1480.5	1463.9	1451.8
15°	1534.1	1505.0	1448.5	1429.0	1411.2
17.5°	1517.0	1479.7	1414.1	1390.4	1369.2
20°	1495.9	1448.9	1370.9	1338.1	1314.8
22.5°	1470.1	1415.3	1328.1	1280.4	1261.7
25°	1441.9	1374.2	1270.4	1216.0	1192.0
27.5°	1404.9	1329.0	1213.5	1145.5	1111.0
30°	1365.9	1275.4	1147.5	1069.1	1032.5
32.5°	1319.0	1216.9	1071.1	987.7	955.3
35°	1268.3	1149.6	1001.0	906.7	873.1
37.5°	1208.6	1077.0	917.5	831.2	801.7
40°	1143.0	998.1	834.5	758.5	735.3
42.5°	1068.2	917.9	756.4	690.8	670.9
45°	988.9	834.1	683.4	631.5	619.0
47.5°	902.6	750.2	614.9	577.9	568.8
50°	809.6	666.3	548.4	528.1	528.5
52.5°	721.2	587.1	492.0	486.6	485.3
55°	625.7	510.7	439.2	444.6	445.9
57.5°	539.3	439.7	394.4	404.4	405.6
60°	457.1	376.1	351.6	367.0	369.1
62.5°	382.0	321.8	315.1	330.9	330.5
65°	310.5	272.4	280.2	296.4	297.7
67.5°	249.9	232.1	251.2	265.3	264.5
70°	198.5	196.0	222.9	237.9	237.1
72.5°	154.4	165.7	200.9	213.8	210.5
75°	114.6	139.5	180.6	192.6	189.7
77.5°	84.3	117.9	162.7	174.4	172.3
80°	57.7	100.1	147.4	159.4	156.9
82.5°	37.0	85.1	134.1	145.7	144.1
85°	19.9	71.8	122.1	134.5	132.4
87.5°	7.5	61.0	111.3	123.7	122.9
90°	0.8	52.3	101.7	114.6	113.8
92.5°	1.2	44.4	92.6	105.9	105.9
95°	2.1	37.0	84.3	97.6	97.1
97.5°	1.7	31.1	75.1	89.7	89.7
100°	1.7	25.7	66.8	81.4	82.2
102.5°	1.7	20.3	59.8	73.9	75.6
105°	1.2	14.5	52.7	67.3	68.9
107.5°	1.2	8.3	45.7	61.0	63.1
110°	1.2	2.1	39.4	54.4	56.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.2	1.2	33.2	48.2	50.7
115°	1.2	1.2	27.0	41.9	45.7
117.5°	0.8	0.8	19.9	36.5	39.9
120°	0.8	0.8	12.5	30.7	34.0
122.5°	0.8	0.8	5.4	24.5	29.1
125°	0.8	0.8	0.8	18.3	22.8
127.5°	0.8	0.8	0.4	10.8	16.2
130°	0.8	0.8	0.4	4.2	10.0
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)