

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: P290117

Luminaire Tested: **4SSRK-LN-80-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290117
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-80-L935-CD1-U
Description: 8000 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: 7023.4 lumens
Efficiency: N/A
Efficacy: 111.7 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

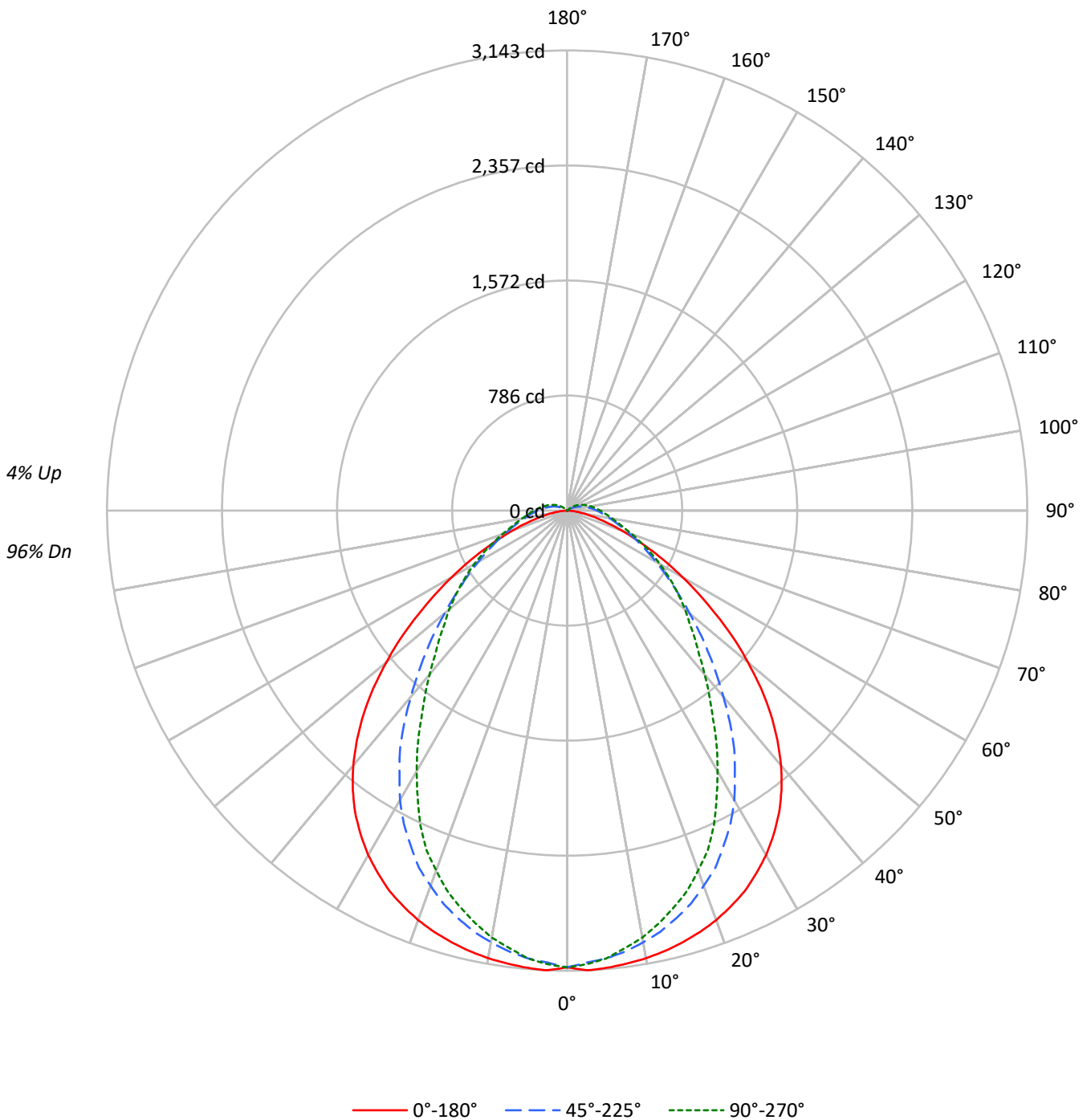
Input Watts (W): 62.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	201486	201486	201486
5°	202483	159228	147442
10°	202080	130564	113876
15°	201814	109124	90607
20°	201485	91878	73206
25°	200526	77215	58978
30°	197894	64249	46292
35°	193308	52318	36033
40°	185238	41193	28309
45°	172512	32188	22498
50°	154176	24882	18319
55°	132289	19364	14880
60°	109557	15187	11963
65°	86666	11951	9449
70°	66892	9463	7427
75°	49236	7685	5914
80°	34535	6337	4902
85°	19877	5344	4179



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.9	4.2
10°-20°	820.2	11.7
20°-30°	1182.1	16.8
30°-40°	1280.4	18.2
40°-50°	1134.1	16.1
50°-60°	862.9	12.3
60°-70°	574.9	8.2
70°-80°	355.2	5.1
80°-90°	222.5	3.2
90°-100°	146.2	2.1
100°-110°	89.6	1.3
110°-120°	46.3	0.7
120°-130°	15.2	0.2
130°-140°	0.9	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°	2295.2	32.7
0°-40°	3575.6	50.9
0°-60°	5572.6	79.3
0°-90°	6725.3	95.8
90°-120°	282.1	4.0
90°-150°	298.2	4.2
90°-180°	298.0	4.2
0°-180°	7023.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3120	3120	3120	3120	3120	
5°	3135	3115	3070	3082	3070	298
15°	3052	2994	2882	2843	2808	862
25°	2869	2734	2528	2419	2371	1320
35°	2523	2287	1992	1804	1737	1573
45°	1968	1659	1360	1256	1232	1509
55°	1245	1016	874	885	887	1118
65°	618	542	558	590	592	624
75°	228	278	359	383	378	252
85°	40	143	243	268	264	48
90°	2	104	202	228	226	3
95°	4	74	168	194	193	3
105°	2	29	105	134	137	3
115°	2	2	54	83	91	2
125°	2	2	2	36	45	2
135°	0	0	0	0	0	1
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°	3119.8	3119.8	3119.8	3119.8	3119.8
2.5°	3142.9	3125.6	3090.1	3110.7	3100.8
5°	3134.7	3114.8	3070.2	3081.8	3070.2
7.5°	3121.4	3096.7	3037.2	3042.1	3014.9
10°	3104.1	3071.1	2994.2	2986.0	2961.2
12.5°	3081.8	3035.5	2945.5	2912.5	2888.5
15°	3052.1	2994.2	2881.9	2843.1	2807.6
17.5°	3018.2	2943.9	2813.3	2766.3	2724.1
20°	2976.1	2882.7	2727.4	2662.2	2615.9
22.5°	2924.9	2815.8	2642.4	2547.4	2510.2
25°	2868.7	2734.1	2527.6	2419.3	2371.4
27.5°	2795.2	2644.0	2414.4	2278.9	2210.4
30°	2717.5	2537.5	2283.1	2126.9	2054.3
32.5°	2624.2	2421.0	2131.1	1965.0	1900.6
35°	2523.4	2287.2	1991.5	1804.0	1737.1
37.5°	2404.5	2142.6	1825.5	1653.6	1595.0
40°	2274.0	1985.7	1660.3	1509.1	1462.8
42.5°	2125.3	1826.3	1505.0	1374.5	1334.8
45°	1967.5	1659.4	1359.6	1256.3	1231.6
47.5°	1795.7	1492.6	1223.3	1149.8	1131.6
50°	1610.7	1325.7	1091.1	1050.7	1051.5
52.5°	1434.8	1168.0	978.8	968.1	965.6
55°	1244.8	1016.0	873.9	884.6	887.1
57.5°	1073.0	874.7	784.7	804.5	807.0
60°	909.4	748.4	699.6	730.2	734.3
62.5°	759.9	640.1	626.9	658.3	657.5
65°	617.8	541.9	557.5	589.8	592.2
67.5°	497.3	461.7	499.7	527.8	526.2
70°	394.8	389.9	443.6	473.3	471.6
72.5°	307.3	329.6	399.8	425.4	418.8
75°	228.0	277.5	359.3	383.3	377.5
77.5°	167.7	234.6	323.8	346.9	342.8
80°	114.8	199.1	293.2	317.2	312.2
82.5°	73.5	169.3	266.8	289.9	286.6
85°	39.6	142.9	242.8	267.6	263.5
87.5°	14.9	121.4	221.4	246.1	244.5
90°	1.7	104.1	202.4	228.0	226.3
92.5°	2.5	88.4	184.2	210.6	210.6
95°	4.1	73.5	167.7	194.1	193.3
97.5°	3.3	61.9	149.5	178.4	178.4
100°	3.3	51.2	133.0	161.9	163.5
102.5°	3.3	40.5	118.9	147.0	150.3
105°	2.5	28.9	104.9	133.8	137.1
107.5°	2.5	16.5	90.9	121.4	125.6
110°	2.5	4.1	78.5	108.2	113.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.5	2.5	66.1	95.8	100.8
115°	2.5	2.5	53.7	83.4	90.9
117.5°	1.7	1.7	39.6	72.7	79.3
120°	1.7	1.7	24.8	61.1	67.7
122.5°	1.7	1.7	10.7	48.7	57.8
125°	1.7	1.7	1.7	36.3	45.4
127.5°	1.7	1.7	0.8	21.5	32.2
130°	1.7	1.7	0.8	8.3	19.8
132.5°	1.7	1.7	0.8	0.8	5.8
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)