

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: P290165

Luminaire Tested: **8SSRK-LN-12-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290165
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-12-L935-CD1-U
Description: 12000 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: 9717.6 lumens
Efficiency: N/A
Efficacy: 120.1 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

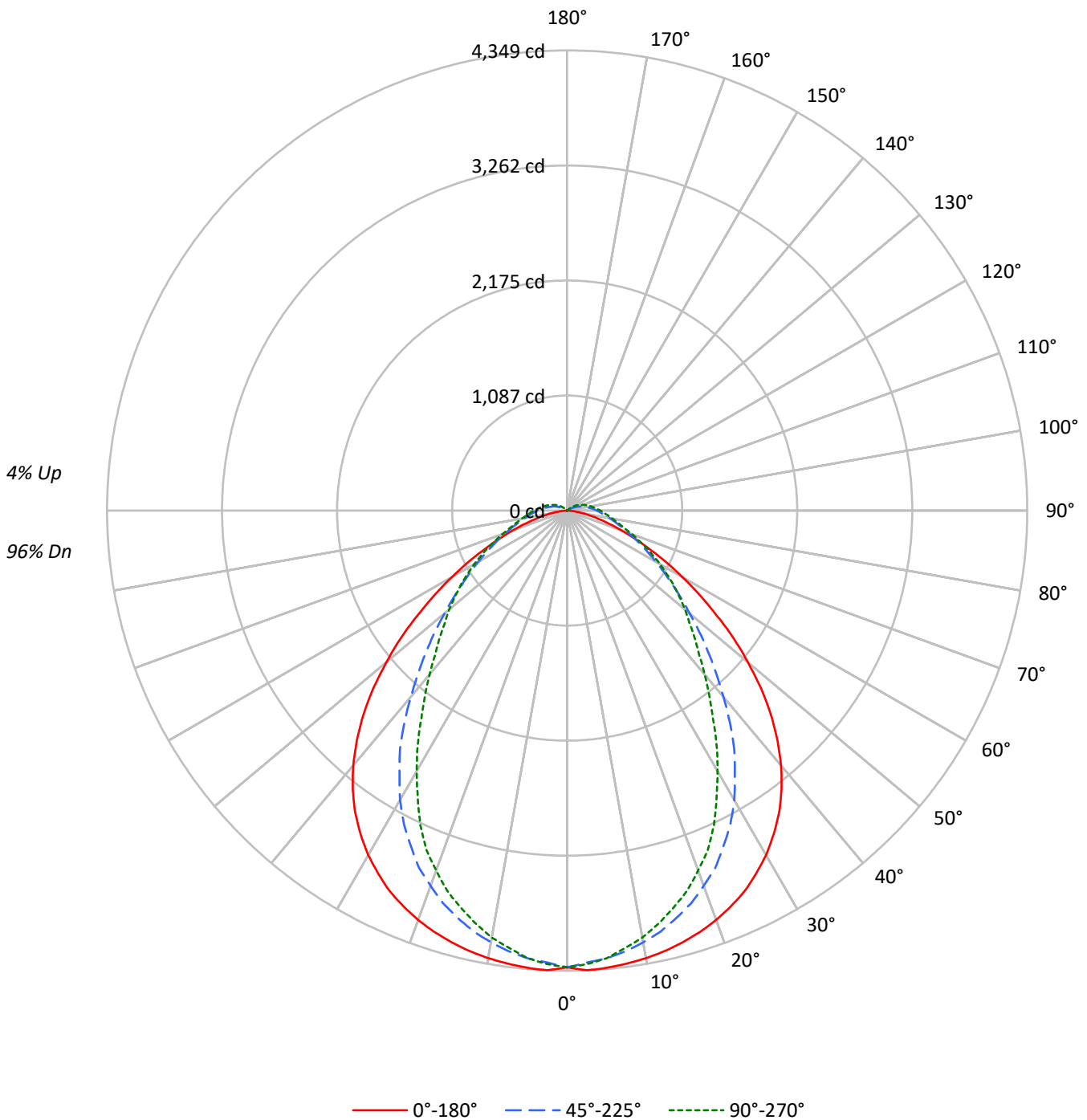
Input Watts (W): 80.8951
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	139389	139389	139389
5°	140331	110269	102002
10°	140309	90481	78779
15°	140387	75661	62682
20°	140435	63730	50645
25°	140057	53574	40801
30°	138533	44589	32024
35°	135654	36318	24927
40°	130349	28600	19585
45°	121782	22353	15563
50°	109245	17283	12674
55°	94161	13452	10294
60°	78434	10552	8276
65°	62528	8305	6537
70°	48786	6576	5139
75°	36512	5342	4091
80°	26427	4406	3392
85°	16429	3716	2891



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.2	4.2
10°-20°	1134.8	11.7
20°-30°	1635.5	16.8
30°-40°	1771.6	18.2
40°-50°	1569.1	16.1
50°-60°	1194.0	12.3
60°-70°	795.5	8.2
70°-80°	491.5	5.1
80°-90°	307.9	3.2
90°-100°	202.3	2.1
100°-110°	124.0	1.3
110°-120°	64.0	0.7
120°-130°	21.0	0.2
130°-140°	1.3	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°	3175.6	32.7
0°-40°	4947.2	50.9
0°-60°	7710.3	79.3
0°-90°	9305.1	95.8
90°-120°	390.3	4.0
90°-150°	412.5	4.2
90°-180°	413.0	4.3
0°-180°	9717.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4317	4317	4317	4317	4317	
5°	4337	4310	4248	4264	4248	413
15°	4223	4143	3987	3934	3885	1193
25°	3969	3783	3497	3347	3281	1826
35°	3491	3165	2755	2496	2403	2176
45°	2722	2296	1881	1738	1704	2088
55°	1722	1406	1209	1224	1227	1547
65°	855	750	771	816	819	863
75°	315	384	497	530	522	349
85°	55	198	336	370	365	67
90°	2	144	280	315	313	4
95°	6	102	232	269	267	4
105°	3	40	145	185	190	4
115°	3	3	74	115	126	3
125°	2	2	2	50	63	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°	4316.6	4316.6	4316.6	4316.6	4316.6
2.5°	4348.6	4324.6	4275.4	4304.0	4290.3
5°	4337.1	4309.7	4248.0	4264.0	4248.0
7.5°	4318.8	4284.6	4202.3	4209.1	4171.4
10°	4294.8	4249.1	4142.8	4131.4	4097.1
12.5°	4264.0	4200.0	4075.4	4029.7	3996.6
15°	4222.8	4142.8	3987.4	3933.7	3884.6
17.5°	4176.0	4073.1	3892.6	3827.4	3769.1
20°	4117.7	3988.6	3773.7	3683.4	3619.4
22.5°	4046.8	3896.0	3656.0	3524.6	3473.1
25°	3969.1	3782.8	3497.1	3347.4	3281.1
27.5°	3867.4	3658.3	3340.6	3153.1	3058.3
30°	3760.0	3510.8	3158.8	2942.8	2842.3
32.5°	3630.8	3349.7	2948.6	2718.8	2629.7
35°	3491.4	3164.6	2755.4	2496.0	2403.4
37.5°	3326.8	2964.6	2525.7	2288.0	2206.8
40°	3146.3	2747.4	2297.1	2088.0	2024.0
42.5°	2940.6	2526.8	2082.3	1901.7	1846.8
45°	2722.3	2296.0	1881.1	1738.3	1704.0
47.5°	2484.6	2065.1	1692.6	1590.9	1565.7
50°	2228.6	1834.3	1509.7	1453.7	1454.9
52.5°	1985.1	1616.0	1354.3	1339.4	1336.0
55°	1722.3	1405.7	1209.1	1224.0	1227.4
57.5°	1484.6	1210.3	1085.7	1113.1	1116.6
60°	1258.3	1035.4	968.0	1010.3	1016.0
62.5°	1051.4	885.7	867.4	910.9	909.7
65°	854.9	749.7	771.4	816.0	819.4
67.5°	688.0	638.9	691.4	730.3	728.0
70°	546.3	539.4	613.7	654.9	652.6
72.5°	425.1	456.0	553.1	588.6	579.4
75°	315.4	384.0	497.1	530.3	522.3
77.5°	232.0	324.6	448.0	480.0	474.3
80°	158.9	275.4	405.7	438.9	432.0
82.5°	101.7	234.3	369.1	401.1	396.6
85°	54.9	197.7	336.0	370.3	364.6
87.5°	20.6	168.0	306.3	340.6	338.3
90°	2.3	144.0	280.0	315.4	313.1
92.5°	3.4	122.3	254.9	291.4	291.4
95°	5.7	101.7	232.0	268.6	267.4
97.5°	4.6	85.7	206.9	246.9	246.9
100°	4.6	70.9	184.0	224.0	226.3
102.5°	4.6	56.0	164.6	203.4	208.0
105°	3.4	40.0	145.1	185.1	189.7
107.5°	3.4	22.9	125.7	168.0	173.7
110°	3.4	5.7	108.6	149.7	156.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.4	3.4	91.4	132.6	139.4
115°	3.4	3.4	74.3	115.4	125.7
117.5°	2.3	2.3	54.9	100.6	109.7
120°	2.3	2.3	34.3	84.6	93.7
122.5°	2.3	2.3	14.9	67.4	80.0
125°	2.3	2.3	2.3	50.3	62.9
127.5°	2.3	2.3	1.1	29.7	44.6
130°	2.3	2.3	1.1	11.4	27.4
132.5°	2.3	2.3	1.1	1.1	8.0
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)