

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: P290152

Luminaire Tested: **8SSRK-LN-80-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290152
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-80-L830-CD1-U
Description: 8000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH ROUND NARROW LENS AND 80 CRI 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8346.2 lumens
Efficiency: N/A
Efficacy: 147.3 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

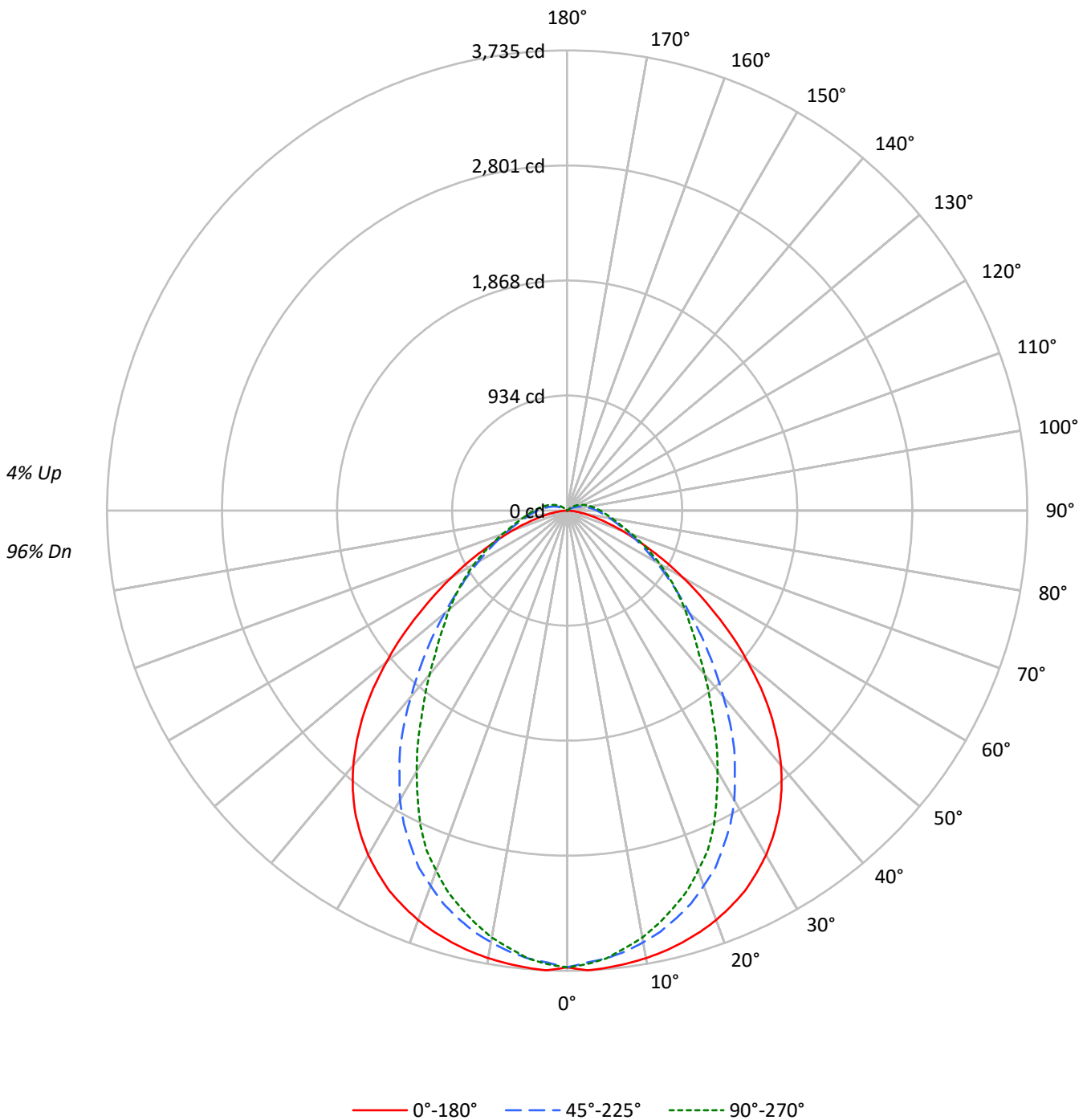
Input Watts (W): 56.6491
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	119717	119717	119717
5°	120526	94708	87607
10°	120508	77713	67662
15°	120576	64984	53835
20°	120617	54735	43497
25°	120293	46014	35044
30°	118983	38296	27505
35°	116511	31193	21409
40°	111954	24564	16821
45°	104595	19199	13367
50°	93828	14843	10884
55°	80871	11554	8842
60°	67364	9063	7108
65°	53700	7134	5615
70°	41901	5648	4414
75°	31360	4588	3514
80°	22685	3785	2913
85°	14094	3192	2483



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.1	4.2
10°-20°	974.7	11.7
20°-30°	1404.7	16.8
30°-40°	1521.6	18.2
40°-50°	1347.7	16.1
50°-60°	1025.5	12.3
60°-70°	683.2	8.2
70°-80°	422.1	5.1
80°-90°	264.5	3.2
90°-100°	173.8	2.1
100°-110°	106.5	1.3
110°-120°	54.9	0.7
120°-130°	18.0	0.2
130°-140°	1.1	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°	2727.4	32.7
0°-40°	4249.0	50.9
0°-60°	6622.1	79.3
0°-90°	7991.9	95.8
90°-120°	335.2	4.0
90°-150°	354.3	4.2
90°-180°	354.0	4.2
0°-180°	8346.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3707	3707	3707	3707	3707	
5°	3725	3702	3648	3662	3648	354
15°	3627	3558	3425	3378	3336	1025
25°	3409	3249	3004	2875	2818	1568
35°	2999	2718	2367	2144	2064	1869
45°	2338	1972	1616	1493	1464	1793
55°	1479	1207	1038	1051	1054	1329
65°	734	644	663	701	704	741
75°	271	330	427	455	449	300
85°	47	170	289	318	313	58
90°	2	124	240	271	269	3
95°	5	87	199	231	230	3
105°	3	34	125	159	163	3
115°	3	3	64	99	108	3
125°	2	2	2	43	54	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°	3707.4	3707.4	3707.4	3707.4	3707.4
2.5°	3734.9	3714.2	3672.0	3696.6	3684.8
5°	3725.0	3701.5	3648.5	3662.2	3648.5
7.5°	3709.3	3679.9	3609.2	3615.1	3582.7
10°	3688.7	3649.5	3558.2	3548.4	3518.9
12.5°	3662.2	3607.3	3500.3	3461.0	3432.5
15°	3626.9	3558.2	3424.7	3378.5	3336.3
17.5°	3586.6	3498.3	3343.2	3287.3	3237.2
20°	3536.6	3425.7	3241.1	3163.6	3108.6
22.5°	3475.7	3346.2	3140.0	3027.1	2983.0
25°	3409.0	3249.0	3003.6	2875.0	2818.1
27.5°	3321.6	3142.0	2869.1	2708.1	2626.7
30°	3229.4	3015.4	2713.0	2527.5	2441.2
32.5°	3118.4	2877.0	2532.4	2335.1	2258.6
35°	2998.7	2718.0	2366.6	2143.7	2064.2
37.5°	2857.3	2546.2	2169.3	1965.1	1895.4
40°	2702.3	2359.7	1972.9	1793.3	1738.4
42.5°	2525.6	2170.2	1788.4	1633.3	1586.2
45°	2338.1	1972.0	1615.7	1493.0	1463.5
47.5°	2133.9	1773.7	1453.7	1366.3	1344.7
50°	1914.1	1575.4	1296.6	1248.6	1249.5
52.5°	1705.0	1387.9	1163.2	1150.4	1147.5
55°	1479.2	1207.3	1038.5	1051.3	1054.2
57.5°	1275.1	1039.5	932.5	956.0	959.0
60°	1080.7	889.3	831.4	867.7	872.6
62.5°	903.0	760.7	745.0	782.3	781.3
65°	734.2	643.9	662.6	700.8	703.8
67.5°	590.9	548.7	593.8	627.2	625.3
70°	469.2	463.3	527.1	562.4	560.5
72.5°	365.1	391.6	475.1	505.5	497.7
75°	270.9	329.8	427.0	455.4	448.6
77.5°	199.3	278.8	384.8	412.3	407.3
80°	136.4	236.6	348.5	376.9	371.0
82.5°	87.4	201.2	317.0	344.5	340.6
85°	47.1	169.8	288.6	318.0	313.1
87.5°	17.7	144.3	263.1	292.5	290.5
90°	2.0	123.7	240.5	270.9	268.9
92.5°	2.9	105.0	218.9	250.3	250.3
95°	4.9	87.4	199.3	230.7	229.7
97.5°	3.9	73.6	177.7	212.0	212.0
100°	3.9	60.9	158.0	192.4	194.4
102.5°	3.9	48.1	141.3	174.7	178.6
105°	2.9	34.4	124.7	159.0	162.9
107.5°	2.9	19.6	108.0	144.3	149.2
110°	2.9	4.9	93.2	128.6	134.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.9	2.9	78.5	113.9	119.8
115°	2.9	2.9	63.8	99.1	108.0
117.5°	2.0	2.0	47.1	86.4	94.2
120°	2.0	2.0	29.4	72.6	80.5
122.5°	2.0	2.0	12.8	57.9	68.7
125°	2.0	2.0	2.0	43.2	54.0
127.5°	2.0	2.0	1.0	25.5	38.3
130°	2.0	2.0	1.0	9.8	23.6
132.5°	2.0	2.0	1.0	1.0	6.9
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)