

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: P290121

Luminaire Tested: **4SSRK-LN-80-L835-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290121  
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-L835-CD1-U  
Description: 8000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH ROUND NARROW LENS AND 80 CRI 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8361.2 lumens  
Efficiency: N/A  
Efficacy: 132.9 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

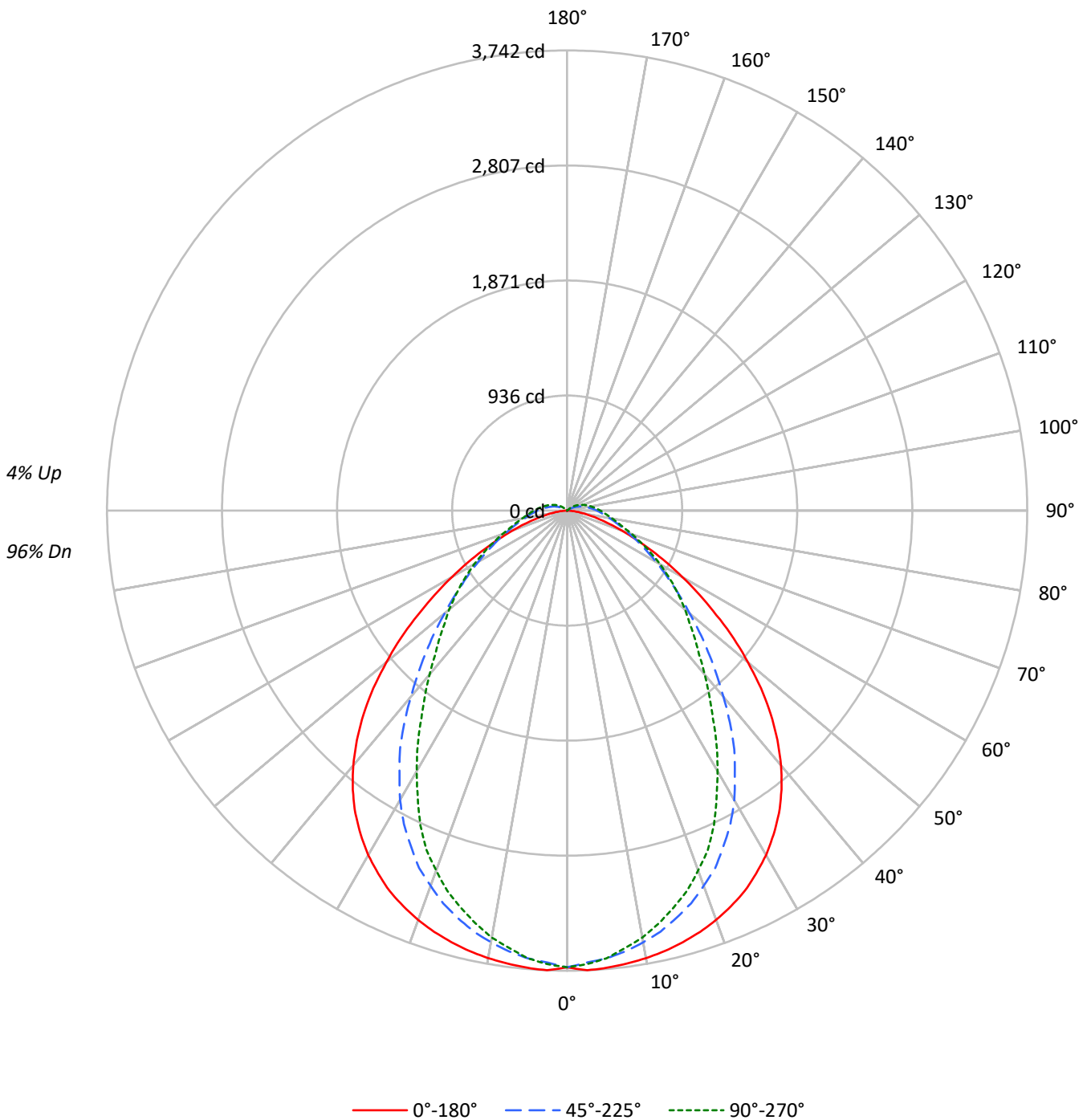
Input Watts (W): 62.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	239861	239861	239861
5°	241046	189557	175526
10°	240574	155436	135565
15°	240251	129908	107863
20°	239858	109382	87151
25°	238720	91921	70212
30°	235594	76485	55107
35°	230133	62283	42895
40°	220518	49038	33702
45°	205375	38320	26781
50°	183543	29623	21809
55°	157486	23054	17715
60°	130423	18081	14243
65°	103177	14228	11248
70°	79633	11263	8843
75°	58609	9148	7040
80°	41124	7545	5837
85°	23692	6363	4975



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	348.7	4.2
10°-20°	976.4	11.7
20°-30°	1407.2	16.8
30°-40°	1524.3	18.2
40°-50°	1350.1	16.1
50°-60°	1027.3	12.3
60°-70°	684.4	8.2
70°-80°	422.9	5.1
80°-90°	264.9	3.2
90°-100°	174.1	2.1
100°-110°	106.7	1.3
110°-120°	55.0	0.7
120°-130°	18.1	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°	2732.3	32.7
0°-40°	4256.6	50.9
0°-60°	6634.0	79.3
0°-90°	8006.2	95.8
90°-120°	335.8	4.0
90°-150°	355.0	4.2
90°-180°	355.0	4.2
0°-180°	8361.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3714	3714	3714	3714	3714	
5°	3732	3708	3655	3669	3655	355
15°	3633	3565	3431	3385	3342	1026
25°	3415	3255	3009	2880	2823	1571
35°	3004	2723	2371	2148	2068	1872
45°	2342	1976	1619	1496	1466	1797
55°	1482	1210	1040	1053	1056	1331
65°	736	645	664	702	705	743
75°	271	330	428	456	449	300
85°	47	170	289	319	314	58
90°	2	124	241	271	269	3
95°	5	88	200	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°	3714.0	3714.0	3714.0	3714.0	3714.0
2.5°	3741.6	3720.9	3678.6	3703.2	3691.4
5°	3731.7	3708.1	3655.0	3668.8	3655.0
7.5°	3716.0	3686.5	3615.7	3621.6	3589.2
10°	3695.4	3656.0	3564.6	3554.7	3525.2
12.5°	3668.8	3613.7	3506.6	3467.2	3438.7
15°	3633.4	3564.6	3430.8	3384.6	3342.3
17.5°	3593.1	3504.6	3349.2	3293.2	3243.0
20°	3542.9	3431.8	3247.0	3169.3	3114.2
22.5°	3482.0	3352.2	3145.7	3032.6	2988.3
25°	3415.1	3254.8	3009.0	2880.2	2823.1
27.5°	3327.6	3147.6	2874.3	2713.0	2631.4
30°	3235.2	3020.8	2717.9	2532.1	2445.5
32.5°	3124.0	2882.1	2537.0	2339.3	2262.6
35°	3004.1	2722.8	2370.8	2147.6	2067.9
37.5°	2862.5	2550.8	2173.2	1968.6	1898.8
40°	2707.1	2363.9	1976.5	1796.5	1741.5
42.5°	2530.1	2174.1	1791.6	1636.3	1589.1
45°	2342.3	1975.5	1618.6	1495.6	1466.1
47.5°	2137.8	1776.9	1456.3	1368.8	1347.2
50°	1917.5	1578.2	1299.0	1250.8	1251.8
52.5°	1708.0	1390.4	1165.2	1152.5	1149.5
55°	1481.9	1209.5	1040.4	1053.1	1056.1
57.5°	1277.3	1041.3	934.2	957.8	960.7
60°	1082.6	890.9	832.9	869.3	874.2
62.5°	904.7	762.1	746.3	783.7	782.7
65°	735.5	645.1	663.7	702.1	705.0
67.5°	592.0	549.7	594.9	628.3	626.4
70°	470.0	464.1	528.0	563.4	561.5
72.5°	365.8	392.3	475.9	506.4	498.5
75°	271.4	330.4	427.7	456.3	449.4
77.5°	199.6	279.3	385.5	413.0	408.1
80°	136.7	237.0	349.1	377.6	371.7
82.5°	87.5	201.6	317.6	345.1	341.2
85°	47.2	170.1	289.1	318.6	313.7
87.5°	17.7	144.5	263.5	293.0	291.1
90°	2.0	123.9	240.9	271.4	269.4
92.5°	2.9	105.2	219.3	250.7	250.7
95°	4.9	87.5	199.6	231.1	230.1
97.5°	3.9	73.7	178.0	212.4	212.4
100°	3.9	61.0	158.3	192.7	194.7
102.5°	3.9	48.2	141.6	175.0	179.0
105°	2.9	34.4	124.9	159.3	163.2
107.5°	2.9	19.7	108.2	144.5	149.5
110°	2.9	4.9	93.4	128.8	134.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.9	2.9	78.7	114.1	120.0
115°	2.9	2.9	63.9	99.3	108.2
117.5°	2.0	2.0	47.2	86.5	94.4
120°	2.0	2.0	29.5	72.8	80.6
122.5°	2.0	2.0	12.8	58.0	68.8
125°	2.0	2.0	2.0	43.3	54.1
127.5°	2.0	2.0	1.0	25.6	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)