

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: P289680

Luminaire Tested: **4SSRK-80-L830-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P289680  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-11)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SSRK-80-L830-CD1-U  
Description: 8000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH NO LENS AND 80 CRI 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8795.7 lumens  
Efficiency: N/A  
Efficacy: 139.8 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')  
CIE Type: Direct

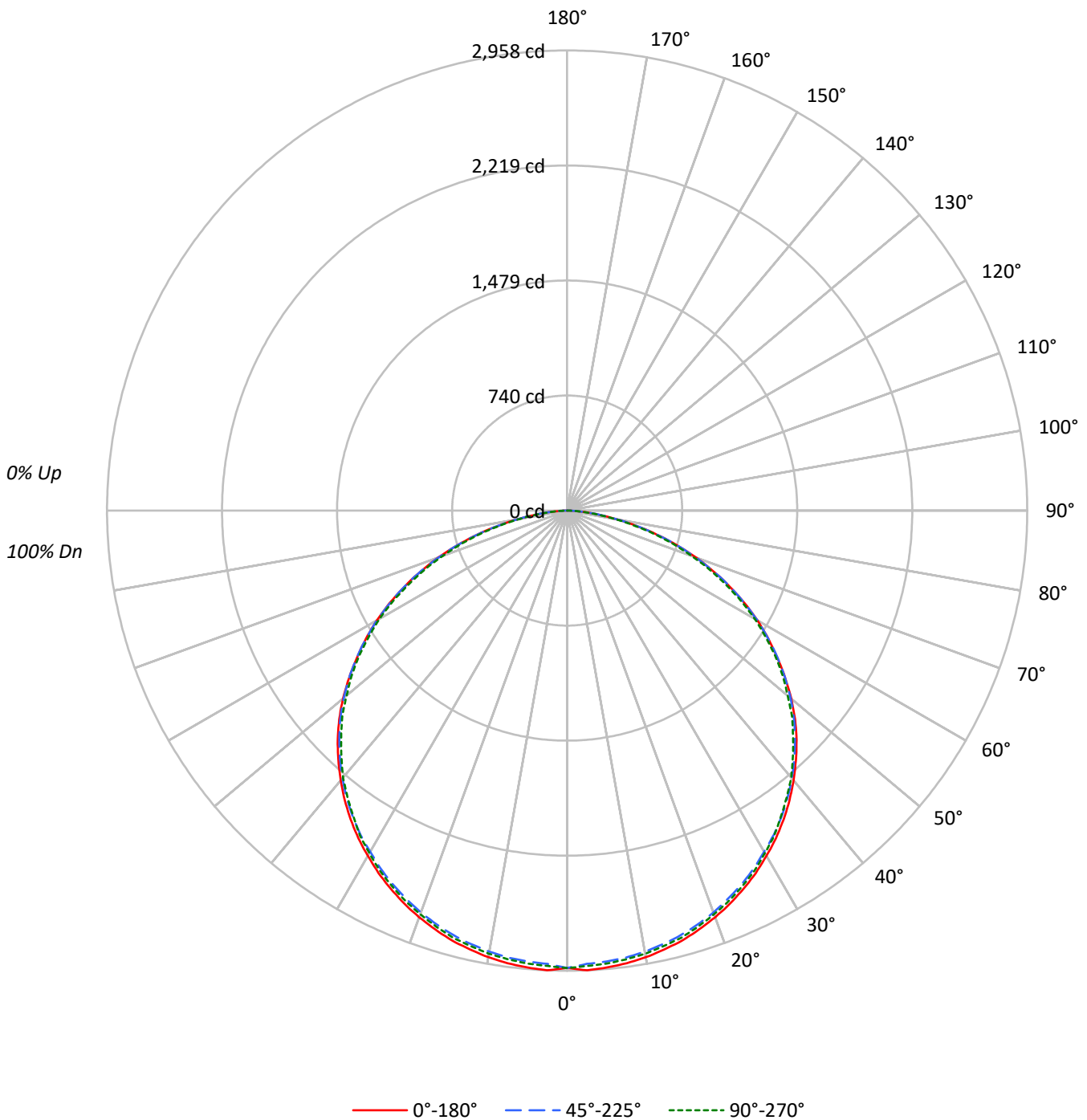
Input Watts (W): 62.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91		93	91	88		90	88	86	84
2	99	90	83	78	96	88	82	77	85	79	75		81	77	73		78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62		72	66	61		69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55	49	45	42
6	69	56	47	40	68	55	46	40	53	46	40		51	45	39		50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35		47	40	35		45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31		43	36	31		42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28		39	33	28		38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25		37	30	25		36	30	25	23

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	189906	189906	189906
5°	190443	150899	140335
10°	189795	125527	111223
15°	189198	106988	91685
20°	188344	92609	77286
25°	187503	81000	66257
30°	186614	71270	57288
35°	185793	63105	49728
40°	184415	55762	43363
45°	182902	49042	37522
50°	180059	42742	32234
55°	175361	36606	27402
60°	170022	30637	22693
65°	161506	24699	17921
70°	149523	18661	13382
75°	129224	12757	9057
80°	99154	7124	4888
85°	59180	2575	1610



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	278.7	3.2
10°-20°	802.9	9.1
20°-30°	1230.5	14.0
30°-40°	1508.3	17.1
40°-50°	1597.9	18.2
50°-60°	1473.3	16.8
60°-70°	1132.2	12.9
70°-80°	627.6	7.1
80°-90°	144.4	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	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°	2312.0	26.3
0°-40°	3820.3	43.4
0°-60°	6891.5	78.4
0°-90°	8795.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8795.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2940	2940	2940	2940	2940	
5°	2948	2936	2910	2938	2922	280
15°	2861	2848	2826	2851	2841	808
25°	2682	2673	2652	2679	2664	1237
35°	2425	2414	2402	2411	2397	1517
45°	2086	2079	2072	2069	2054	1607
55°	1650	1663	1652	1645	1634	1476
65°	1151	1154	1152	1137	1123	1138
75°	598	599	596	587	578	633
85°	118	120	117	111	102	146
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2940.5	2940.5	2940.5	2940.5	2940.5
2.5°	2957.9	2943.4	2916.4	2943.4	2929.9
5°	2948.3	2935.7	2909.6	2937.6	2922.2
7.5°	2934.7	2924.1	2898.0	2925.1	2909.6
10°	2915.4	2903.8	2878.7	2907.7	2892.2
12.5°	2889.3	2878.7	2854.5	2881.6	2868.0
15°	2861.3	2847.7	2825.5	2850.6	2841.0
17.5°	2822.6	2812.0	2789.7	2813.9	2803.3
20°	2782.0	2771.4	2749.1	2773.3	2761.7
22.5°	2735.6	2725.0	2701.8	2727.9	2716.3
25°	2682.4	2672.8	2651.5	2678.6	2664.1
27.5°	2626.4	2618.6	2595.4	2617.7	2609.0
30°	2562.6	2557.7	2532.6	2550.0	2542.3
32.5°	2497.8	2489.1	2471.7	2485.2	2477.5
35°	2425.3	2413.7	2402.1	2410.8	2397.3
37.5°	2348.0	2340.3	2327.7	2335.4	2320.0
40°	2263.9	2257.1	2247.5	2249.4	2240.7
42.5°	2176.9	2169.2	2161.4	2157.6	2147.9
45°	2086.0	2079.3	2071.5	2068.6	2054.1
47.5°	1987.4	1982.6	1977.8	1971.0	1960.4
50°	1881.1	1883.0	1874.3	1868.5	1850.2
52.5°	1767.0	1778.6	1766.1	1757.4	1746.7
55°	1650.1	1662.6	1652.0	1645.2	1633.6
57.5°	1534.1	1539.9	1533.1	1528.3	1512.8
60°	1411.3	1416.1	1411.3	1400.7	1392.9
62.5°	1284.7	1290.5	1280.8	1273.1	1262.4
65°	1151.3	1154.2	1152.2	1136.8	1123.2
67.5°	1016.9	1021.7	1015.9	1005.3	991.8
70°	882.5	879.6	874.8	867.1	849.7
72.5°	740.5	740.5	739.5	725.0	716.3
75°	598.4	599.3	596.4	586.8	578.1
77.5°	456.3	466.9	459.2	449.5	439.8
80°	329.6	336.4	329.6	317.1	311.3
82.5°	210.7	220.4	214.6	202.0	200.1
85°	117.9	119.9	117.0	111.2	101.5
87.5°	44.5	46.4	47.4	38.7	33.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)