

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: P290120

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290120
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-L830-CD1-U
Description: 8000 LUMEN, 4 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: 8219.4 lumens
Efficiency: N/A
Efficacy: 130.7 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

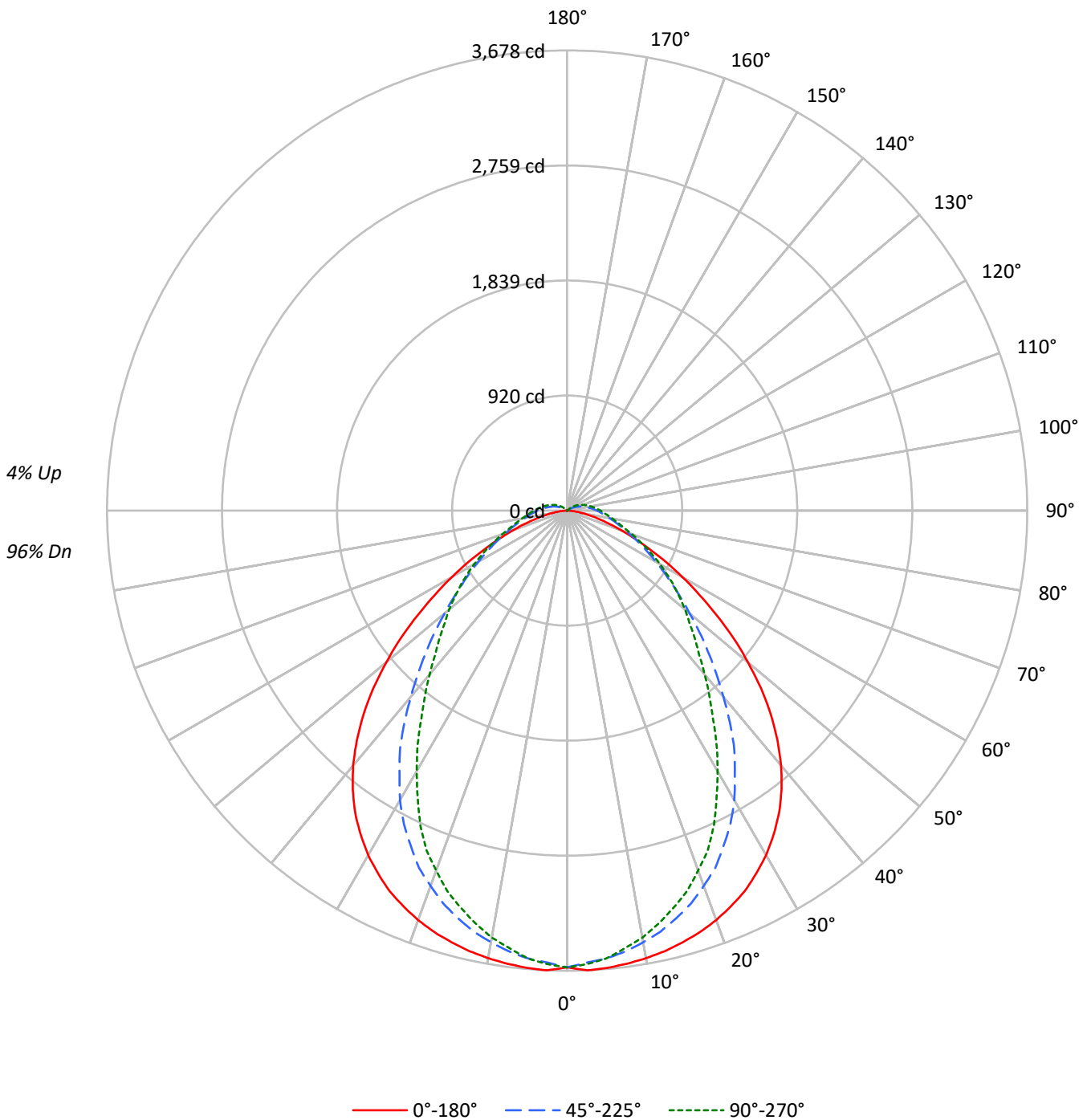
Input Watts (W): 62.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	235799	235799	235799
5°	236964	186347	172554
10°	236492	152798	133269
15°	236178	127708	106037
20°	235796	107526	85674
25°	234673	90363	69023
30°	231596	75188	54174
35°	226226	61227	42169
40°	216779	48207	33130
45°	201894	37669	26328
50°	180432	29121	21440
55°	154808	22661	17415
60°	128218	17775	14001
65°	101438	13987	11058
70°	78294	11073	8693
75°	57615	8994	6921
80°	40432	7418	5738
85°	23291	6255	4891



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.8	4.2
10°-20°	959.9	11.7
20°-30°	1383.4	16.8
30°-40°	1498.5	18.2
40°-50°	1327.2	16.1
50°-60°	1009.9	12.3
60°-70°	672.8	8.2
70°-80°	415.7	5.1
80°-90°	260.4	3.2
90°-100°	171.1	2.1
100°-110°	104.9	1.3
110°-120°	54.1	0.7
120°-130°	17.7	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°	2686.0	32.7
0°-40°	4184.5	50.9
0°-60°	6521.5	79.3
0°-90°	7870.5	95.8
90°-120°	330.1	4.0
90°-150°	348.9	4.2
90°-180°	349.0	4.2
0°-180°	8219.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3651	3651	3651	3651	3651	
5°	3668	3645	3593	3607	3593	349
15°	3572	3504	3373	3327	3286	1009
25°	3357	3200	2958	2831	2775	1545
35°	2953	2677	2331	2111	2033	1840
45°	2303	1942	1591	1470	1441	1766
55°	1457	1189	1023	1035	1038	1309
65°	723	634	652	690	693	730
75°	267	325	420	448	442	295
85°	46	167	284	313	308	57
90°	2	122	237	267	265	3
95°	5	86	196	227	226	3
105°	3	34	123	157	160	3
115°	3	3	63	98	106	3
125°	2	2	2	42	53	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°	3651.1	3651.1	3651.1	3651.1	3651.1
2.5°	3678.1	3657.8	3616.3	3640.4	3628.8
5°	3668.5	3645.3	3593.1	3606.6	3593.1
7.5°	3653.0	3624.0	3554.4	3560.2	3528.3
10°	3632.7	3594.0	3504.1	3494.5	3465.5
12.5°	3606.6	3552.5	3447.1	3408.4	3380.4
15°	3571.8	3504.1	3372.7	3327.2	3285.7
17.5°	3532.2	3445.2	3292.4	3237.3	3188.0
20°	3482.9	3373.6	3191.9	3115.5	3061.4
22.5°	3422.9	3295.3	3092.3	2981.2	2937.7
25°	3357.2	3199.6	2958.0	2831.3	2775.3
27.5°	3271.2	3094.3	2825.5	2667.0	2586.8
30°	3180.3	2969.6	2671.8	2489.1	2404.1
32.5°	3071.1	2833.3	2494.0	2299.7	2224.3
35°	2953.1	2676.7	2330.6	2111.2	2032.9
37.5°	2813.9	2507.5	2136.3	1935.2	1866.6
40°	2661.2	2323.8	1943.0	1766.1	1711.9
42.5°	2487.2	2137.3	1761.2	1608.5	1562.1
45°	2302.6	1942.0	1591.1	1470.3	1441.3
47.5°	2101.5	1746.7	1431.6	1345.6	1324.3
50°	1885.0	1551.5	1277.0	1229.6	1230.6
52.5°	1679.1	1366.9	1145.5	1132.9	1130.0
55°	1456.7	1189.0	1022.7	1035.3	1038.2
57.5°	1255.7	1023.7	918.3	941.5	944.4
60°	1064.3	875.8	818.8	854.5	859.4
62.5°	889.3	749.2	733.7	770.4	769.5
65°	723.1	634.1	652.5	690.2	693.1
67.5°	581.9	540.4	584.8	617.7	615.8
70°	462.1	456.3	519.1	553.9	552.0
72.5°	359.6	385.7	467.9	497.8	490.1
75°	266.8	324.8	420.5	448.5	441.8
77.5°	196.2	274.5	378.9	406.0	401.2
80°	134.4	233.0	343.2	371.2	365.4
82.5°	86.0	198.2	312.2	339.3	335.4
85°	46.4	167.2	284.2	313.2	308.4
87.5°	17.4	142.1	259.1	288.1	286.1
90°	1.9	121.8	236.8	266.8	264.9
92.5°	2.9	103.4	215.6	246.5	246.5
95°	4.8	86.0	196.2	227.2	226.2
97.5°	3.9	72.5	175.0	208.8	208.8
100°	3.9	59.9	155.6	189.5	191.4
102.5°	3.9	47.4	139.2	172.1	175.9
105°	2.9	33.8	122.8	156.6	160.5
107.5°	2.9	19.3	106.3	142.1	146.9
110°	2.9	4.8	91.8	126.6	132.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.9	2.9	77.3	112.1	117.9
115°	2.9	2.9	62.8	97.6	106.3
117.5°	1.9	1.9	46.4	85.1	92.8
120°	1.9	1.9	29.0	71.5	79.3
122.5°	1.9	1.9	12.6	57.0	67.7
125°	1.9	1.9	1.9	42.5	53.2
127.5°	1.9	1.9	1.0	25.1	37.7
130°	1.9	1.9	1.0	9.7	23.2
132.5°	1.9	1.9	1.0	1.0	6.8
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)