

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: P290116

Luminaire Tested: **4SSRK-LN-80-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290116
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-L930-CD1-U
Description: 8000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH ROUND NARROW LENS AND 90 CRI 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6616.6 lumens
Efficiency: N/A
Efficacy: 105.2 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

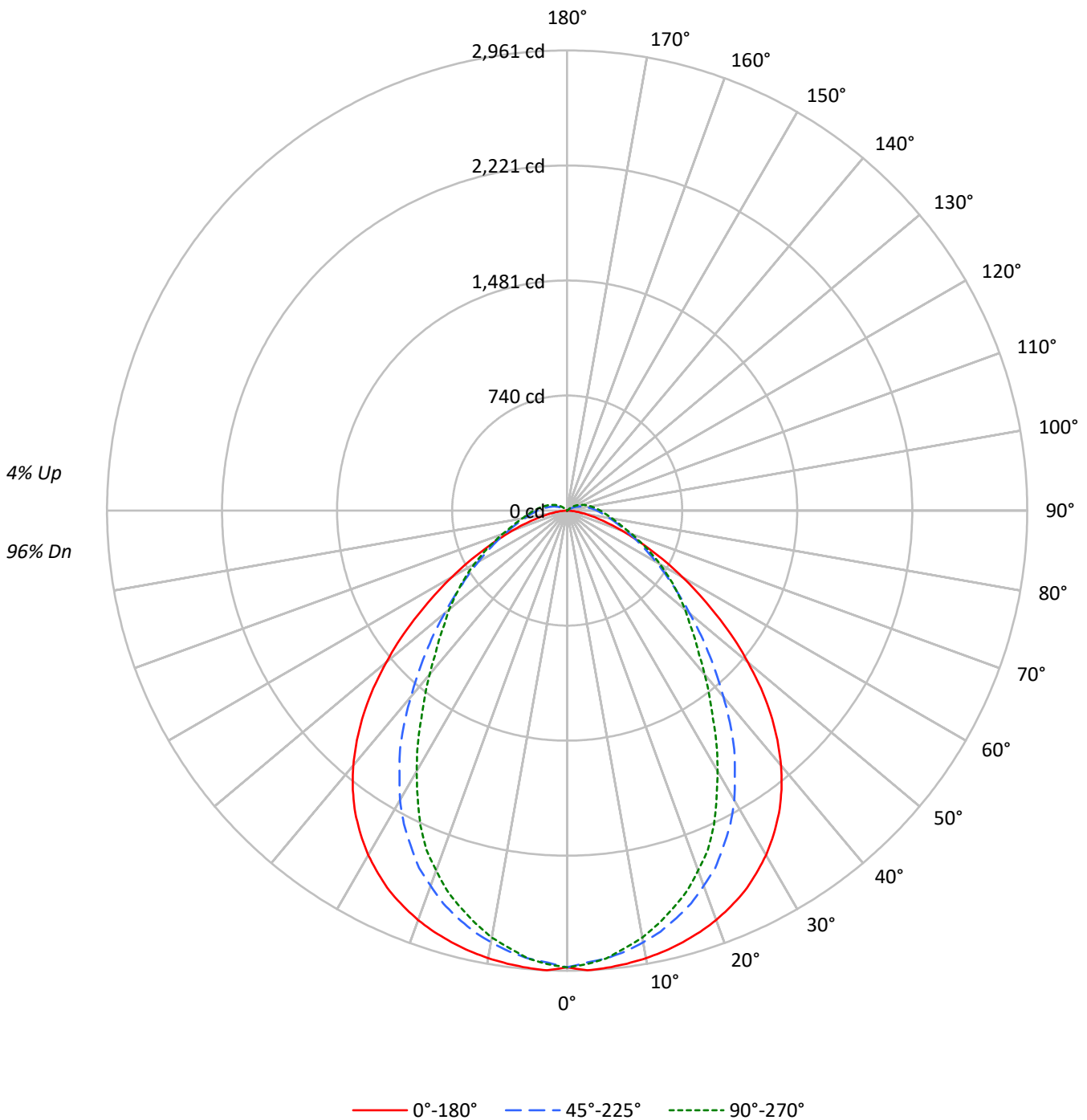
Input Watts (W): 62.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0		
RCR																										
0	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	98	98	98	98	98	98	96		
1	108	104	99	96	105	101	97	94	96	93	90	91	89	86	87	85	83	87	85	83	87	85	83	81		
2	99	91	85	80	96	89	83	78	85	80	76	81	77	74	78	74	71	78	74	71	78	74	71	69		
3	91	81	74	68	88	79	72	67	76	70	65	73	68	63	70	65	62	70	65	62	70	65	62	59		
4	84	73	65	58	81	71	64	58	68	62	56	65	60	55	63	58	54	63	58	54	63	58	54	52		
5	78	66	57	51	75	64	56	51	62	55	50	59	53	49	57	52	48	57	52	48	57	52	48	46		
6	72	60	51	45	70	58	51	45	56	49	44	54	48	43	52	47	43	52	47	43	52	47	43	41		
7	67	54	46	40	65	53	46	40	52	45	39	50	44	39	48	43	38	48	43	38	48	43	38	36		
8	63	50	42	36	61	49	41	36	47	41	36	46	40	35	44	39	35	44	39	35	44	39	35	33		
9	59	46	38	33	57	45	38	33	44	37	32	43	36	32	41	36	32	41	36	32	41	36	32	30		
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	38	33	29	38	33	29	38	33	29	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	189816	189816	189816
5°	190753	150007	138904
10°	190375	123003	107281
15°	190123	102804	85360
20°	189813	86559	68966
25°	188908	72743	55563
30°	186432	60526	43610
35°	182116	49287	33946
40°	174510	38806	26670
45°	162525	30323	21193
50°	145246	23441	17258
55°	124626	18243	14018
60°	103220	14308	11271
65°	81658	11261	8901
70°	63029	8915	6997
75°	46386	7241	5571
80°	32550	5970	4618
85°	18773	5036	3937



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.9	4.2
10°-20°	772.7	11.7
20°-30°	1113.6	16.8
30°-40°	1206.3	18.2
40°-50°	1068.4	16.1
50°-60°	812.9	12.3
60°-70°	541.6	8.2
70°-80°	334.6	5.1
80°-90°	209.6	3.2
90°-100°	137.8	2.1
100°-110°	84.4	1.3
110°-120°	43.6	0.7
120°-130°	14.3	0.2
130°-140°	0.9	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°	2162.2	32.7
0°-40°	3368.5	50.9
0°-60°	5249.8	79.3
0°-90°	6335.7	95.8
90°-120°	265.7	4.0
90°-150°	280.9	4.2
90°-180°	281.0	4.2
0°-180°	6616.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2939	2939	2939	2939	2939	
5°	2953	2934	2892	2903	2892	281
15°	2875	2821	2715	2678	2645	812
25°	2702	2576	2381	2279	2234	1243
35°	2377	2155	1876	1700	1636	1482
45°	1854	1563	1281	1184	1160	1422
55°	1173	957	823	833	836	1053
65°	582	510	525	556	558	588
75°	215	262	338	361	356	238
85°	37	135	229	252	248	46
90°	2	98	191	215	213	3
95°	4	69	158	183	182	3
105°	2	27	99	126	129	3
115°	2	2	51	79	86	2
125°	2	2	2	34	43	1
135°	0	0	0	0	0	0
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°	2939.1	2939.1	2939.1	2939.1	2939.1
2.5°	2960.9	2944.5	2911.1	2930.5	2921.2
5°	2953.1	2934.4	2892.4	2903.3	2892.4
7.5°	2940.7	2917.3	2861.3	2866.0	2840.3
10°	2924.3	2893.2	2820.8	2813.0	2789.7
12.5°	2903.3	2859.7	2774.9	2743.8	2721.2
15°	2875.3	2820.8	2715.0	2678.4	2645.0
17.5°	2843.4	2773.4	2650.4	2606.0	2566.4
20°	2803.7	2715.8	2569.5	2508.0	2464.4
22.5°	2755.5	2652.7	2489.3	2399.8	2364.8
25°	2702.5	2575.7	2381.2	2279.2	2234.1
27.5°	2633.3	2490.9	2274.6	2146.9	2082.3
30°	2560.1	2390.5	2150.8	2003.8	1935.3
32.5°	2472.2	2280.8	2007.6	1851.2	1790.5
35°	2377.3	2154.7	1876.1	1699.5	1636.5
37.5°	2265.2	2018.5	1719.7	1557.9	1502.6
40°	2142.3	1870.7	1564.1	1421.7	1378.1
42.5°	2002.2	1720.5	1417.8	1294.9	1257.5
45°	1853.6	1563.3	1280.8	1183.6	1160.2
47.5°	1691.7	1406.1	1152.5	1083.2	1066.1
50°	1517.4	1248.9	1027.9	989.8	990.6
52.5°	1351.7	1100.3	922.1	912.0	909.7
55°	1172.7	957.1	823.3	833.4	835.7
57.5°	1010.8	824.1	739.2	757.9	760.3
60°	856.8	705.0	659.1	687.9	691.8
62.5°	715.9	603.1	590.6	620.2	619.4
65°	582.1	510.5	525.3	555.6	557.9
67.5°	468.5	435.0	470.8	497.2	495.7
70°	372.0	367.3	417.9	445.9	444.3
72.5°	289.5	310.5	376.6	400.8	394.5
75°	214.8	261.5	338.5	361.1	355.6
77.5°	158.0	221.0	305.0	326.8	322.9
80°	108.2	187.5	276.2	298.8	294.1
82.5°	69.3	159.5	251.3	273.1	270.0
85°	37.4	134.6	228.8	252.1	248.2
87.5°	14.0	114.4	208.5	231.9	230.3
90°	1.6	98.0	190.6	214.8	213.2
92.5°	2.3	83.3	173.5	198.4	198.4
95°	3.9	69.3	158.0	182.9	182.1
97.5°	3.1	58.4	140.8	168.1	168.1
100°	3.1	48.2	125.3	152.5	154.1
102.5°	3.1	38.1	112.1	138.5	141.6
105°	2.3	27.2	98.8	126.1	129.2
107.5°	2.3	15.6	85.6	114.4	118.3
110°	2.3	3.9	73.9	101.9	106.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.3	2.3	62.3	90.3	94.9
115°	2.3	2.3	50.6	78.6	85.6
117.5°	1.6	1.6	37.4	68.5	74.7
120°	1.6	1.6	23.3	57.6	63.8
122.5°	1.6	1.6	10.1	45.9	54.5
125°	1.6	1.6	1.6	34.2	42.8
127.5°	1.6	1.6	0.8	20.2	30.3
130°	1.6	1.6	0.8	7.8	18.7
132.5°	1.6	1.6	0.8	0.8	5.4
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)