

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: P289643

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289643
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SSRK-TB-80-L830-CD1-U
Description: 8000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH TRILOBE RIBBED LENS AND 80 CRI 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7774.7 lumens
Efficiency: N/A
Efficacy: 123.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.08 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')
CIE Type: Direct

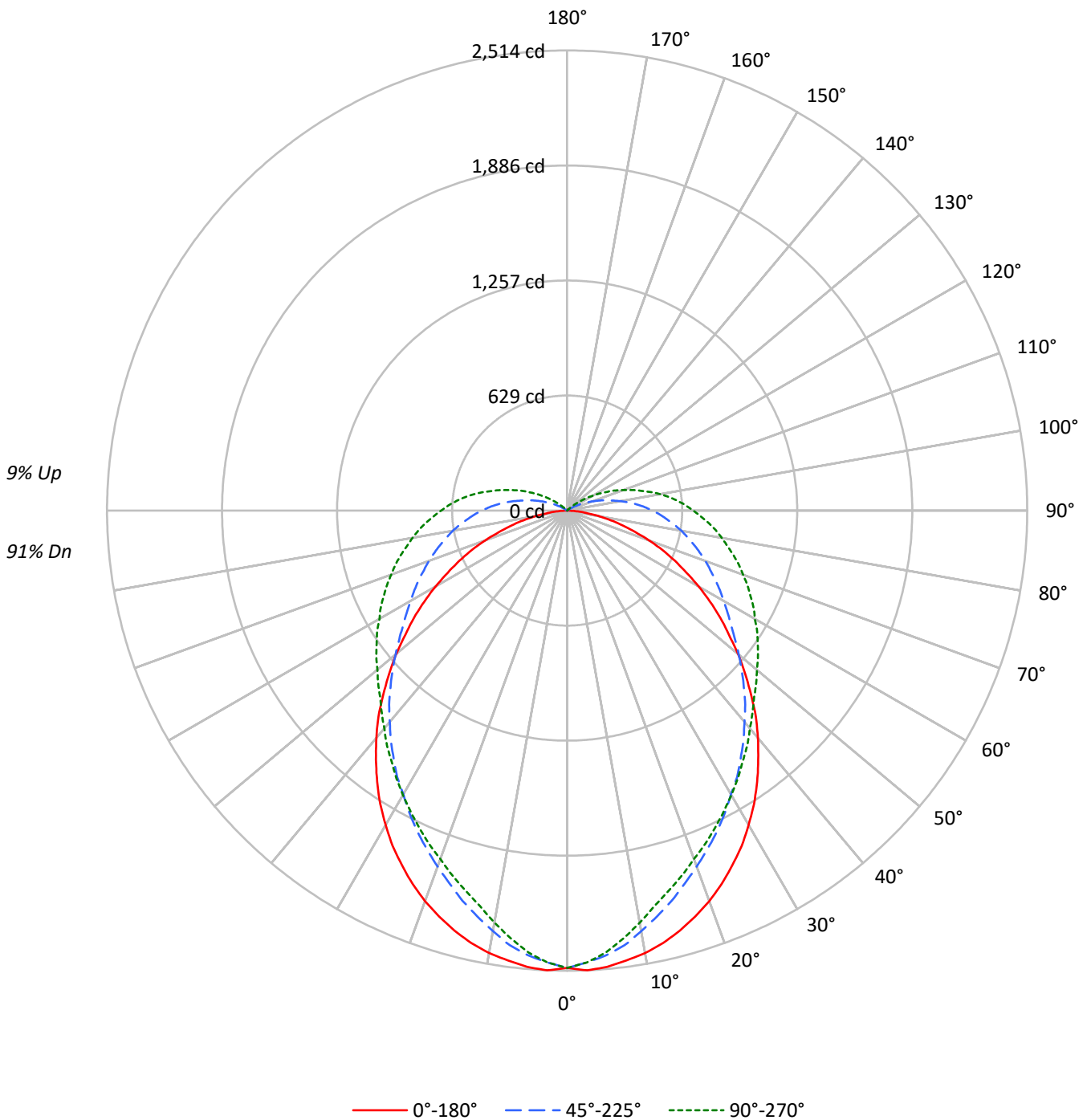
Input Watts (W): 62.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	91				
1	104	98	93	89	100	95	90	86	89	85	82	84	80	78	78	76	74	71				
2	94	85	77	71	90	82	75	69	77	71	66	72	67	63	68	64	60	58				
3	85	74	65	58	82	72	64	57	67	60	55	63	58	53	60	55	51	48				
4	78	65	56	49	75	63	55	48	60	52	47	56	50	45	53	48	43	41				
5	72	58	49	42	69	57	48	41	53	46	40	50	44	39	48	42	38	35				
6	66	53	43	37	64	51	42	36	48	41	35	46	39	34	43	38	33	31				
7	61	48	39	32	59	46	38	32	44	37	31	42	35	30	40	34	29	27				
8	57	44	35	29	55	42	34	29	40	33	28	38	32	27	36	31	26	24				
9	54	40	32	26	52	39	31	26	37	30	25	35	29	24	34	28	24	22				
10	50	37	29	24	48	36	28	23	34	28	23	33	27	22	31	26	22	20				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	161354	161354	161354
5°	161634	126508	116390
10°	159829	101736	87907
15°	157135	83576	69327
20°	153695	69715	56703
25°	149337	59133	47555
30°	144399	50378	40428
35°	138642	43412	34685
40°	132045	37387	30076
45°	124533	32321	26376
50°	116750	27903	23579
55°	108707	24237	21317
60°	100016	21437	19295
65°	91071	19145	17640
70°	80666	17121	16110
75°	67981	15317	14731
80°	53247	13690	13468
85°	33581	12038	12294



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.3	3.0
10°-20°	630.4	8.1
20°-30°	912.1	11.7
30°-40°	1061.0	13.6
40°-50°	1080.0	13.9
50°-60°	1004.9	12.9
60°-70°	875.0	11.3
70°-80°	712.3	9.2
80°-90°	539.6	6.9
90°-100°	374.2	4.8
100°-110°	219.9	2.8
110°-120°	103.1	1.3
120°-130°	29.3	0.4
130°-140°	1.6	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°	1773.8	22.8
0°-40°	2834.8	36.5
0°-60°	4919.7	63.3
0°-90°	7046.5	90.6
90°-120°	697.2	9.0
90°-150°	728.2	9.4
90°-180°	728.0	9.4
0°-180°	7774.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2498	2498	2498	2498	2498	
5°	2502	2483	2439	2439	2424	237
15°	2376	2313	2207	2168	2148	669
25°	2136	2042	1936	1920	1912	984
35°	1810	1715	1652	1668	1672	1131
45°	1420	1365	1365	1420	1444	1096
55°	1023	1019	1094	1224	1271	913
65°	649	704	893	1050	1106	643
75°	315	460	716	881	940	336
85°	67	287	547	720	775	77
90°	0	208	464	633	688	4
95°	0	134	382	551	606	0
105°	0	32	216	366	417	0
115°	0	0	87	201	244	0
125°	0	0	4	67	98	0
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°	4	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°	2498.4	2498.4	2498.4	2498.4	2498.4
2.5°	2514.1	2502.3	2470.8	2482.6	2470.8
5°	2502.3	2482.6	2439.3	2439.3	2423.6
7.5°	2478.7	2455.1	2396.1	2376.4	2356.7
10°	2455.1	2419.7	2333.1	2309.5	2285.9
12.5°	2419.7	2368.5	2270.2	2234.7	2211.1
15°	2376.4	2313.4	2207.2	2167.9	2148.2
17.5°	2325.2	2254.4	2136.4	2104.9	2089.2
20°	2270.2	2187.5	2069.5	2042.0	2026.2
22.5°	2207.2	2112.8	2002.6	1982.9	1971.1
25°	2136.4	2042.0	1935.7	1920.0	1912.1
27.5°	2065.6	1963.3	1864.9	1857.0	1853.1
30°	1982.9	1884.6	1790.2	1794.1	1794.1
32.5°	1900.3	1802.0	1727.2	1735.1	1735.1
35°	1809.8	1715.4	1652.5	1668.2	1672.1
37.5°	1715.4	1632.8	1581.6	1605.2	1617.0
40°	1621.0	1546.2	1506.9	1542.3	1554.1
42.5°	1526.6	1455.7	1440.0	1483.3	1499.0
45°	1420.3	1365.2	1365.2	1420.3	1443.9
47.5°	1318.0	1282.6	1294.4	1365.2	1400.7
50°	1219.7	1192.1	1223.6	1314.1	1353.4
52.5°	1113.4	1105.6	1156.7	1266.9	1314.1
55°	1022.9	1019.0	1093.8	1223.6	1270.8
57.5°	924.6	936.4	1038.7	1180.3	1231.5
60°	830.2	853.8	987.5	1137.0	1184.3
62.5°	735.7	782.9	940.3	1093.8	1148.8
65°	649.2	704.3	893.1	1050.5	1105.6
67.5°	562.6	633.4	845.9	1011.1	1066.2
70°	476.1	570.5	802.6	967.9	1022.9
72.5°	389.5	515.4	759.3	924.6	983.6
75°	314.8	460.3	716.1	881.3	940.3
77.5°	243.9	417.0	672.8	845.9	897.0
80°	177.0	369.8	633.4	802.6	857.7
82.5°	114.1	330.5	590.2	759.3	818.4
85°	66.9	287.2	546.9	720.0	775.1
87.5°	27.5	243.9	507.5	676.7	731.8
90°	0.0	208.5	464.3	633.4	688.5
92.5°	0.0	173.1	424.9	594.1	649.2
95°	0.0	133.8	381.6	550.8	605.9
97.5°	0.0	102.3	338.4	507.5	562.6
100°	0.0	78.7	295.1	456.4	515.4
102.5°	0.0	55.1	251.8	409.2	468.2
105°	0.0	31.5	216.4	365.9	417.0
107.5°	0.0	15.7	181.0	322.6	373.8
110°	0.0	3.9	145.6	279.3	326.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	114.1	240.0	287.2
115°	0.0	0.0	86.6	200.7	243.9
117.5°	0.0	0.0	59.0	165.2	204.6
120°	0.0	0.0	35.4	129.8	165.2
122.5°	0.0	0.0	15.7	98.4	129.8
125°	0.0	0.0	3.9	66.9	98.4
127.5°	0.0	0.0	0.0	39.3	66.9
130°	0.0	0.0	0.0	19.7	39.3
132.5°	0.0	0.0	0.0	3.9	15.7
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°	3.9	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)