

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: P290474

Luminaire Tested: **4SSRK-SLW-80-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290474
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-17)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SSRK-SLW-80-L840-CD1-U
Description: 8000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH SQUARE FROSTED LENS AND 80 CRI 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8029.5 lumens
Efficiency: N/A
Efficacy: 127.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.23 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')
CIE Type: Direct

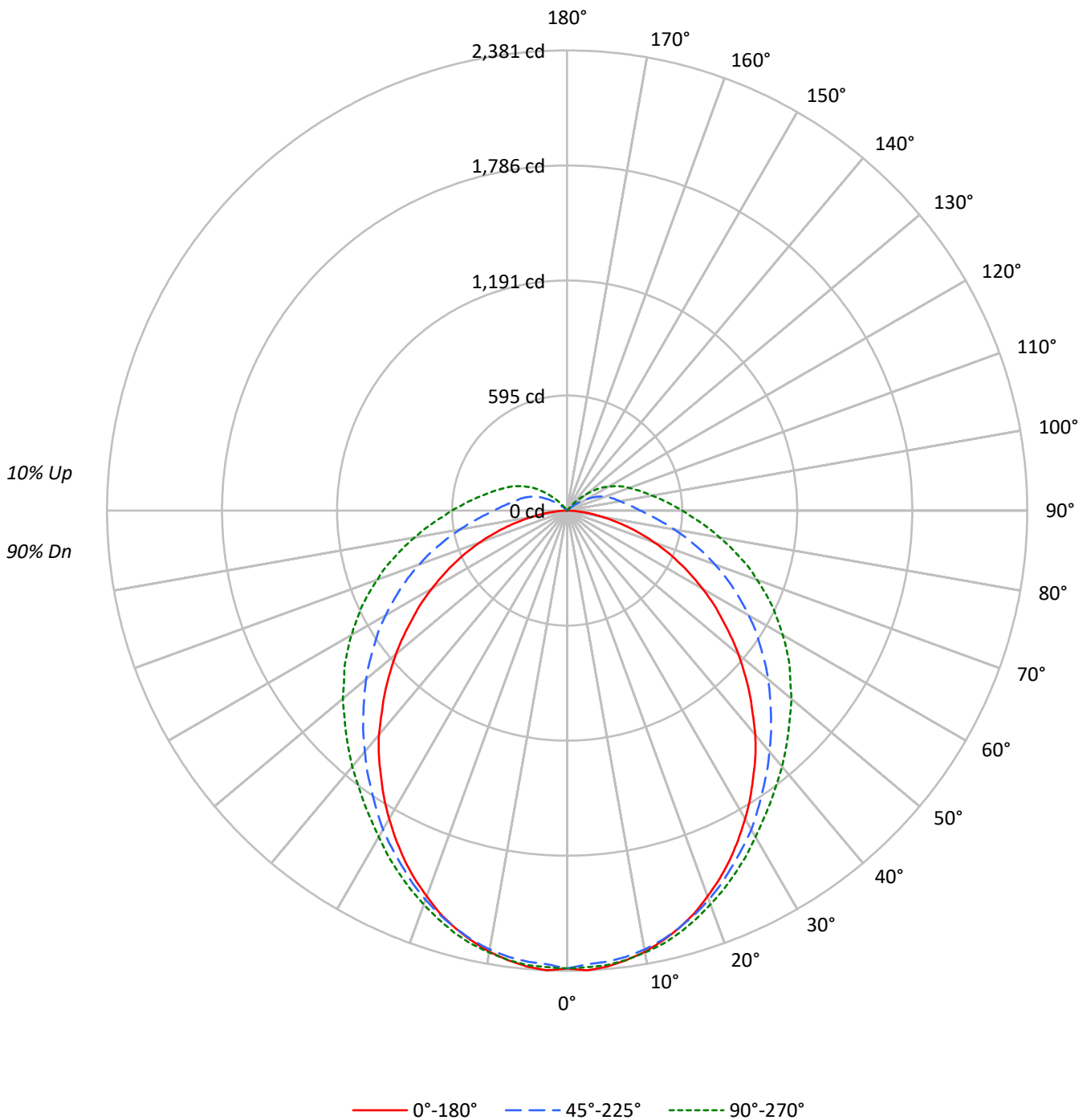
Input Watts (W): 62.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	90
1	104	99	94	89	101	96	91	87	89	86	82	84	81	78	79	76	74	71
2	94	85	78	71	91	82	76	70	77	72	67	72	68	64	68	64	61	58
3	86	74	66	59	82	72	64	58	68	61	55	63	58	53	60	55	51	48
4	78	66	56	49	75	64	55	49	60	53	47	56	50	45	53	48	43	41
5	72	59	49	42	69	57	48	42	54	46	40	50	44	39	48	42	38	35
6	66	53	43	37	64	51	43	36	48	41	35	46	39	34	43	37	33	31
7	61	48	39	32	59	46	38	32	44	36	31	42	35	30	39	34	29	27
8	57	43	35	29	55	42	34	28	40	33	28	38	32	27	36	30	26	24
9	53	40	32	26	51	39	31	26	37	30	25	35	29	24	33	28	24	22
10	50	37	29	23	48	36	28	23	34	27	23	33	26	22	31	26	21	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	152997	152997	152997
5°	153024	121514	113384
10°	150904	100554	89295
15°	147851	84667	72935
20°	143797	72191	60700
25°	139313	61892	51358
30°	134138	53637	43919
35°	128622	46368	38105
40°	123410	40391	33480
45°	116966	35299	29574
50°	110748	30968	26395
55°	103935	27011	23584
60°	97341	23554	21000
65°	89920	20343	18699
70°	80988	17343	16458
75°	69320	14588	14428
80°	54450	12147	12578
85°	35639	10125	10960



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.9	2.8
10°-20°	633.1	7.9
20°-30°	936.7	11.7
30°-40°	1106.3	13.8
40°-50°	1150.0	14.3
50°-60°	1084.2	13.5
60°-70°	924.2	11.5
70°-80°	698.9	8.7
80°-90°	471.6	5.9
90°-100°	323.8	4.0
100°-110°	232.2	2.9
110°-120°	149.0	1.9
120°-130°	76.0	0.9
130°-140°	19.3	0.2
140°-150°	0.3	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1793.7	22.3
0°-40°	2900.0	36.1
0°-60°	5134.2	63.9
0°-90°	7229.0	90.0
90°-120°	705.0	8.8
90°-150°	800.6	10.0
90°-180°	801.0	10.0
0°-180°	8029.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2369	2369	2369	2369	2369	
5°	2369	2363	2343	2365	2361	224
15°	2236	2243	2236	2258	2260	630
25°	1993	2016	2026	2061	2065	917
35°	1679	1719	1765	1818	1837	1051
45°	1334	1400	1491	1583	1619	1029
55°	978	1079	1219	1350	1406	877
65°	641	771	949	1106	1172	636
75°	321	477	682	856	921	343
85°	71	239	460	630	691	81
90°	1	169	378	539	596	4
95°	1	134	322	464	516	1
105°	2	86	244	351	391	2
115°	2	11	169	265	298	2
125°	2	3	71	165	198	2
135°	2	1	1	52	77	2
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°	2369	2369	2369	2369	2369
2.5°	2381	2373	2350	2370	2365
5°	2369	2363	2343	2365	2361
7.5°	2346	2345	2329	2352	2345
10°	2318	2319	2306	2329	2322
12.5°	2280	2284	2275	2297	2296
15°	2236	2243	2236	2258	2260
17.5°	2186	2197	2192	2219	2216
20°	2124	2139	2143	2170	2169
22.5°	2062	2081	2088	2116	2120
25°	1993	2016	2026	2061	2065
27.5°	1918	1948	1966	2001	2010
30°	1842	1874	1906	1941	1949
32.5°	1763	1798	1835	1883	1892
35°	1679	1719	1765	1818	1837
37.5°	1600	1645	1699	1761	1781
40°	1515	1561	1628	1698	1730
42.5°	1420	1482	1562	1646	1674
45°	1334	1400	1491	1583	1619
47.5°	1244	1321	1424	1526	1565
50°	1157	1241	1358	1468	1515
52.5°	1067	1162	1289	1411	1455
55°	978	1079	1219	1350	1406
57.5°	898	1001	1156	1290	1347
60°	808	927	1085	1229	1289
62.5°	725	846	1015	1168	1228
65°	641	771	949	1106	1172
67.5°	562	693	882	1045	1108
70°	478	620	813	981	1045
72.5°	401	547	749	919	988
75°	321	477	682	856	921
77.5°	250	409	622	797	862
80°	181	347	562	738	801
82.5°	123	290	509	684	746
85°	71	239	460	630	691
87.5°	27	199	416	583	639
90°	1	169	378	539	596
92.5°	1	148	349	499	552
95°	1	134	322	464	516
97.5°	2	123	298	433	479
100°	2	112	278	403	447
102.5°	2	101	260	376	417
105°	2	86	244	351	391
107.5°	2	67	226	330	365
110°	2	49	207	309	343



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2	30	190	288	321
115°	2	11	169	265	298
117.5°	2	4	144	243	272
120°	2	3	120	219	248
122.5°	2	3	95	193	224
125°	2	3	71	165	198
127.5°	2	2	46	136	166
130°	2	2	22	108	137
132.5°	2	2	1	79	107
135°	2	1	1	52	77
137.5°	2	1	0	25	50
140°	2	1	0	0	20
142.5°	0	0	0	0	0
145°	0	0	0	0	0
147.5°	0	0	0	0	0
150°	0	0	0	0	0
152.5°	0	0	0	0	0
155°	0	0	0	0	0
157.5°	0	0	0	0	0
160°	0	0	0	0	0
162.5°	0	0	0	0	0
165°	0	0	0	0	0
167.5°	0	0	0	0	0
170°	0	0	0	0	0
172.5°	0	0	0	0	0
175°	0	0	0	0	0
177.5°	0	0	0	0	0
180°	0	0	0	0	0

(END OF REPORT)