

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: P290506

Luminaire Tested: **8SSRK-SLW-80-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290506
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: 8SSRK-SLW-80-L840-CD1-U
Description: 8000 LUMEN, 8 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: 8153.4 lumens
Efficiency: N/A
Efficacy: 143.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.23 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')
CIE Type: Direct

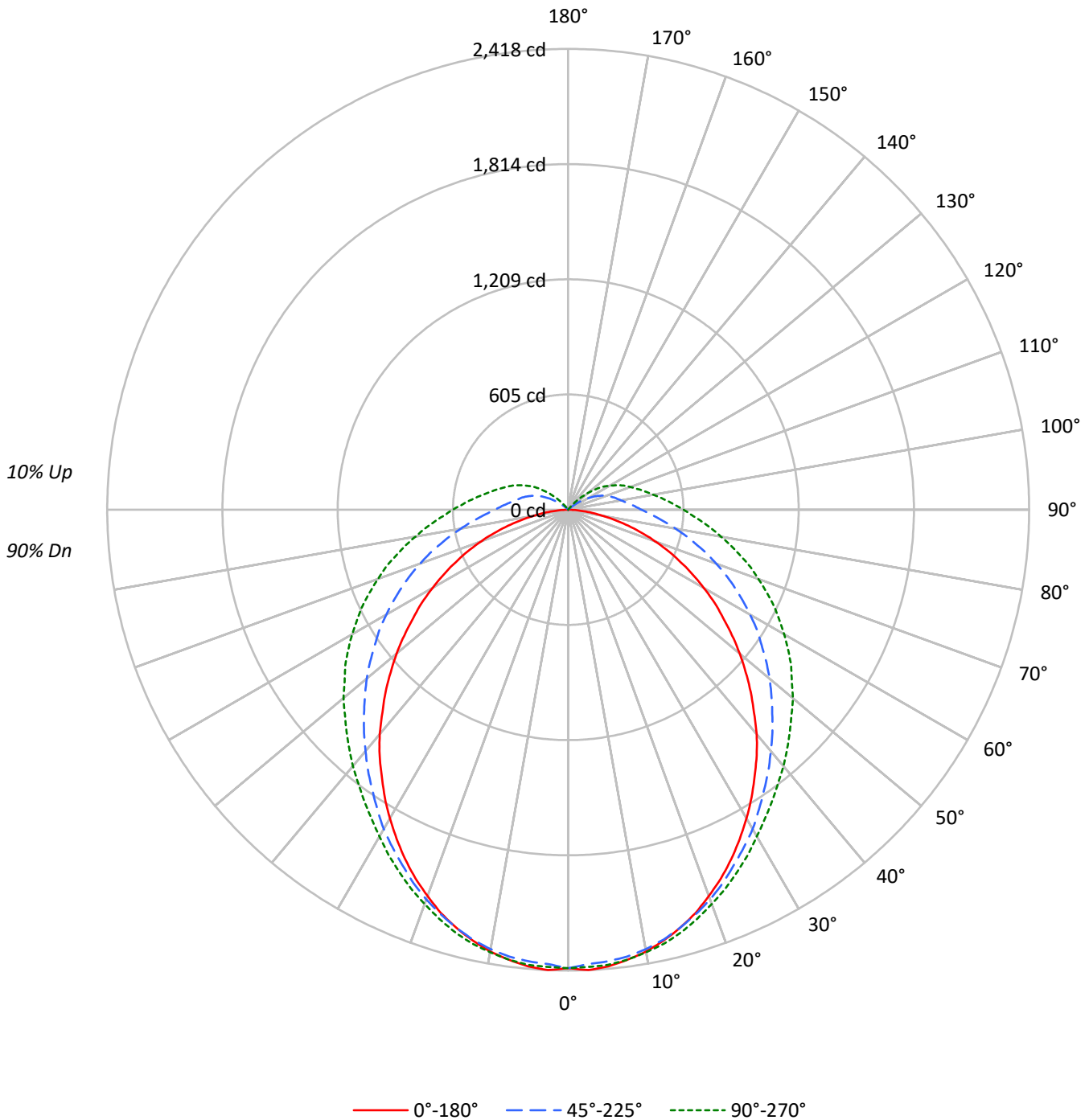
Input Watts (W): 56.6491
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	77677	77677	77677
5°	77832	61757	57566
10°	76894	51142	45336
15°	75483	43083	37031
20°	73558	36748	30817
25°	71410	31515	26074
30°	68913	27320	22299
35°	66242	23622	19346
40°	63735	20582	16998
45°	60598	17990	15015
50°	57588	15785	13401
55°	54295	13771	11974
60°	51145	12010	10662
65°	47607	10374	9494
70°	43347	8845	8356
75°	37739	7441	7325
80°	30568	6197	6386
85°	21576	5166	5565



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.3	2.8
10°-20°	642.9	7.9
20°-30°	951.1	11.7
30°-40°	1123.3	13.8
40°-50°	1167.7	14.3
50°-60°	1101.0	13.5
60°-70°	938.5	11.5
70°-80°	709.7	8.7
80°-90°	478.9	5.9
90°-100°	328.8	4.0
100°-110°	235.8	2.9
110°-120°	151.3	1.9
120°-130°	77.2	0.9
130°-140°	19.6	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°	1821.4	22.3
0°-40°	2944.7	36.1
0°-60°	5213.4	63.9
0°-90°	7340.5	90.0
90°-120°	715.9	8.8
90°-150°	812.9	10.0
90°-180°	813.0	10.0
0°-180°	8153.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2406	2406	2406	2406	2406	
5°	2406	2399	2379	2402	2397	228
15°	2270	2278	2270	2293	2295	639
25°	2024	2047	2057	2093	2097	931
35°	1705	1746	1792	1846	1865	1068
45°	1355	1422	1514	1607	1644	1045
55°	993	1096	1238	1371	1428	891
65°	651	783	964	1123	1190	646
75°	326	484	692	869	935	348
85°	72	243	467	640	702	82
90°	1	172	384	547	605	4
95°	1	136	327	471	524	1
105°	2	87	248	356	397	2
115°	2	11	172	269	303	2
125°	2	3	72	168	201	2
135°	2	1	1	53	78	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



TEST NUMBER: P290506

CATALOG NUMBER: 8SSRK-SLW-80-L840-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2405.5	2405.5	2405.5	2405.5	2405.5
2.5°	2417.7	2409.6	2386.2	2406.5	2401.5
5°	2405.5	2399.4	2379.1	2401.5	2397.4
7.5°	2382.2	2381.2	2364.9	2388.3	2381.2
10°	2353.7	2354.8	2341.6	2364.9	2357.8
12.5°	2315.2	2319.2	2310.1	2332.4	2331.4
15°	2270.5	2277.6	2270.5	2292.8	2294.9
17.5°	2219.7	2230.9	2225.8	2253.2	2250.2
20°	2156.8	2172.0	2176.0	2203.5	2202.4
22.5°	2093.8	2113.1	2120.2	2148.6	2152.7
25°	2023.7	2047.1	2057.2	2092.8	2096.8
27.5°	1947.6	1978.0	1996.3	2031.9	2041.0
30°	1870.4	1902.9	1935.4	1970.9	1979.1
32.5°	1790.2	1825.7	1863.3	1912.0	1921.2
35°	1704.9	1745.5	1792.2	1846.0	1865.3
37.5°	1624.7	1670.4	1725.2	1788.2	1808.5
40°	1538.4	1585.1	1653.1	1724.2	1756.7
42.5°	1441.9	1504.9	1586.1	1671.4	1699.8
45°	1354.6	1421.6	1514.0	1607.4	1644.0
47.5°	1263.2	1341.4	1446.0	1549.5	1589.1
50°	1174.8	1260.1	1378.9	1490.6	1538.4
52.5°	1083.5	1179.9	1308.9	1432.8	1477.4
55°	993.1	1095.6	1237.8	1370.8	1427.7
57.5°	911.8	1016.4	1173.8	1309.9	1367.8
60°	820.5	941.3	1101.7	1248.0	1308.9
62.5°	736.2	859.0	1030.7	1186.0	1246.9
65°	650.9	782.9	963.6	1123.1	1190.1
67.5°	570.7	703.7	895.6	1061.1	1125.1
70°	485.4	629.6	825.5	996.1	1061.1
72.5°	407.2	555.4	760.6	933.2	1003.2
75°	326.0	484.4	692.5	869.2	935.2
77.5°	253.9	415.3	631.6	809.3	875.3
80°	183.8	352.4	570.7	749.4	813.4
82.5°	124.9	294.5	516.8	694.5	757.5
85°	72.1	242.7	467.1	639.7	701.7
87.5°	27.4	202.1	422.4	592.0	648.9
90°	1.0	171.6	383.8	547.3	605.2
92.5°	1.0	150.3	354.4	506.7	560.5
95°	1.0	136.1	327.0	471.2	524.0
97.5°	2.0	124.9	302.6	439.7	486.4
100°	2.0	113.7	282.3	409.2	453.9
102.5°	2.0	102.6	264.0	381.8	423.4
105°	2.0	87.3	247.8	356.4	397.0
107.5°	2.0	68.0	229.5	335.1	370.6
110°	2.0	49.8	210.2	313.8	348.3



TEST NUMBER: P290506

CATALOG NUMBER: 8SSRK-SLW-80-L840-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.0	30.5	192.9	292.4	326.0
115°	2.0	11.2	171.6	269.1	302.6
117.5°	2.0	4.1	146.2	246.7	276.2
120°	2.0	3.0	121.9	222.4	251.8
122.5°	2.0	3.0	96.5	196.0	227.5
125°	2.0	3.0	72.1	167.5	201.1
127.5°	2.0	2.0	46.7	138.1	168.6
130°	2.0	2.0	22.3	109.7	139.1
132.5°	2.0	2.0	1.0	80.2	108.7
135°	2.0	1.0	1.0	52.8	78.2
137.5°	2.0	1.0	0.0	25.4	50.8
140°	2.0	1.0	0.0	0.0	20.3
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)