

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: P231510

Luminaire Tested: **SSLED-LD5-9-W-UNV-L840-CD1-U-CLR22-FRCDL22**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P231510
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1708-240-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: SSLED-LD5-9-W-UNV-L840-CD1-U-CLR22-FRCDL22
Description: STEELER CLEAR REFRACTOR LENS AND CIRCULAR DROP
Light Source: (240) 4000 CCT, 80 CRI LEDS
Ballast/Driver: (1) ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8443.0 lumens
Efficiency: N/A
Efficacy: 131.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.32 / 1.45
Luminous Opening: Vertical Cylinder (Dia: 1.83' x H: 1')
CIE Type: Semi-Direct

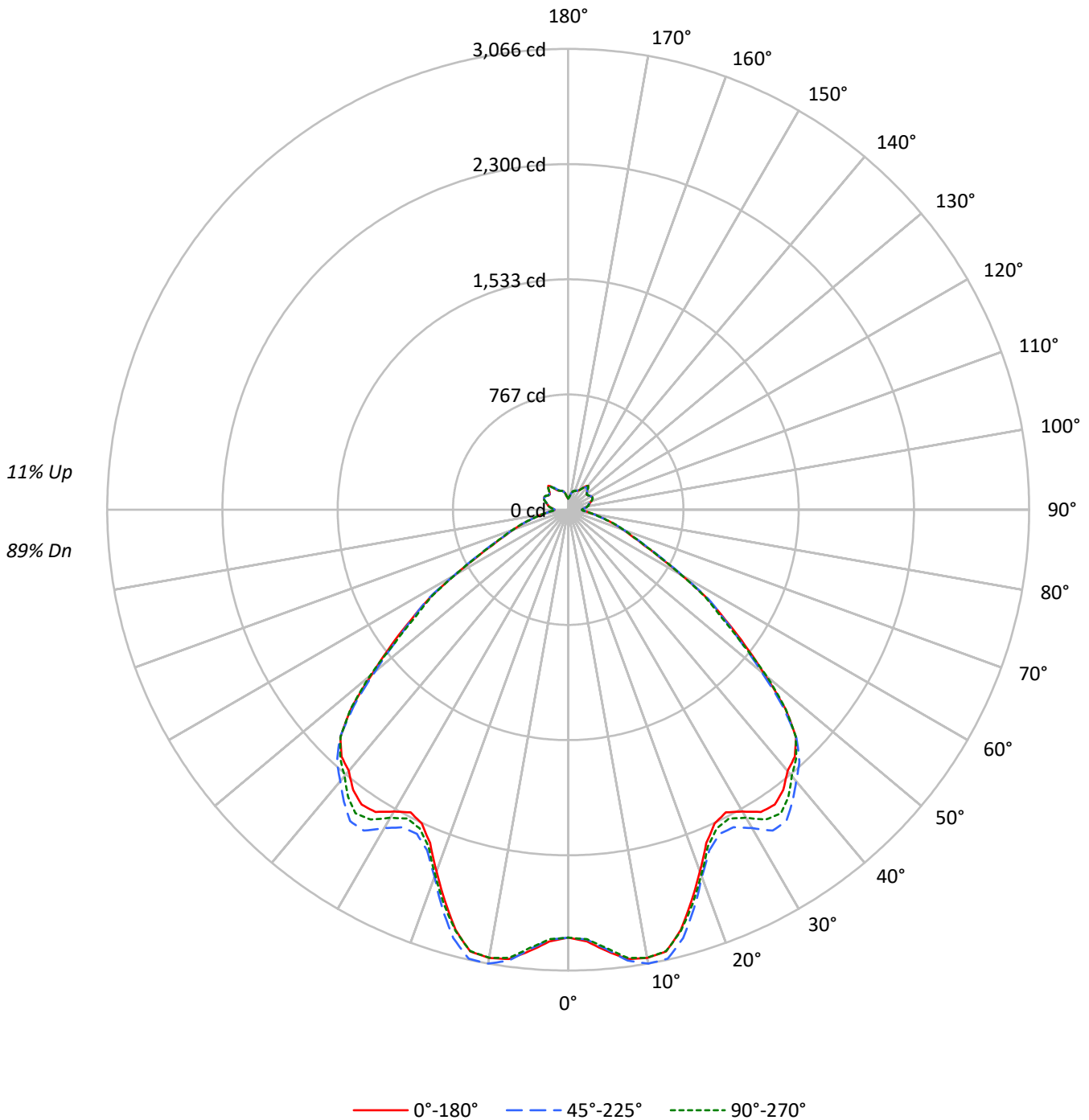
Input Watts (W): 64.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	116	116	116	116	112	112	112	112	105	105	105	98	98	98	92	92	92	89
1	107	103	99	95	103	99	96	93	93	90	88	87	85	83	82	80	79	76
2	98	91	85	79	95	88	82	78	83	78	74	78	74	71	73	70	68	65
3	90	80	73	67	87	78	71	66	73	68	63	69	65	61	65	62	58	56
4	83	72	63	57	80	70	62	56	66	59	54	62	57	52	59	54	51	48
5	76	64	56	50	73	62	55	49	59	52	47	56	50	46	53	48	44	42
6	70	58	49	43	68	56	48	43	53	47	42	51	45	40	48	43	39	37
7	65	53	44	38	63	51	43	38	49	42	37	46	40	36	44	39	35	33
8	61	48	40	34	59	47	39	34	45	38	33	42	36	32	40	35	31	29
9	57	44	36	31	55	43	35	30	41	34	30	39	33	29	37	32	28	26
10	53	40	33	28	51	40	32	27	38	31	27	36	30	26	35	29	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11607	11607	11607
5°	11373	11327	11294
10°	11170	11311	11167
15°	10298	10504	10318
20°	8872	9000	8961
25°	7831	8089	7948
30°	7792	8219	7954
35°	8024	8472	8260
40°	7632	7934	7780
45°	7295	7308	7285
50°	5914	5831	5976
55°	4548	4497	4414
60°	3232	3253	3206
65°	2144	2204	2170
70°	1589	1606	1612
75°	1155	1157	1157
80°	825	814	820
85°	575	578	578



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.3	3.4
10°-20°	809.7	9.6
20°-30°	1115.8	13.2
30°-40°	1517.8	18.0
40°-50°	1618.0	19.2
50°-60°	1141.3	13.5
60°-70°	582.5	6.9
70°-80°	285.3	3.4
80°-90°	129.4	1.5
90°-100°	119.4	1.4
100°-110°	153.5	1.8
110°-120°	173.6	2.1
120°-130°	149.5	1.8
130°-140°	139.1	1.6
140°-150°	113.3	1.3
150°-160°	66.0	0.8
160°-170°	35.6	0.4
170°-180°	8.9	0.1
0°-30°	2209.9	26.2
0°-40°	3727.7	44.2
0°-60°	6487.0	76.8
0°-90°	7484.2	88.6
90°-120°	446.5	5.3
90°-150°	848.4	10.0
90°-180°	959.0	11.4
0°-180°	8443.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2846	2846	2846	2846	2846	
5°	2947	2941	2935	2926	2927	284
15°	2893	2919	2951	2920	2899	802
25°	2304	2384	2380	2409	2339	1086
35°	2396	2401	2530	2437	2466	1479
45°	2144	2136	2147	2156	2141	1605
55°	1274	1286	1260	1265	1237	1145
65°	553	560	569	563	560	574
75°	263	262	264	262	264	285
85°	110	110	110	110	110	104
90°	91	91	91	92	92	51
95°	108	108	108	109	109	93
105°	146	144	142	143	144	154
115°	178	178	177	178	180	174
125°	164	164	165	165	166	149
135°	179	179	179	182	182	140
145°	182	180	182	180	180	114
155°	139	140	141	140	140	65
165°	127	126	126	125	127	36
175°	86	86	85	86	86	9
180°	74	74	74	74	74	



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CATALOG NUMBER: SSLED-LD5-9-W-UNV-L840-CD1-U-CLR22-FRCDL22

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2846.5	2846.5	2846.5	2846.5	2846.5
2.5°	2875.2	2870.4	2862.8	2860.9	2859.4
5°	2947.4	2941.1	2935.4	2925.9	2926.8
7.5°	3015.2	3019.0	3025.7	3014.3	3006.6
10°	3028.1	3042.4	3066.3	3046.7	3027.2
12.5°	3010.9	3033.8	3059.2	3030.5	3007.6
15°	2893.4	2918.7	2951.2	2919.6	2899.1
17.5°	2727.1	2748.6	2782.5	2747.1	2750.0
20°	2561.3	2584.7	2598.5	2606.2	2587.1
22.5°	2400.2	2461.9	2451.8	2481.5	2425.5
25°	2304.2	2384.5	2380.2	2408.8	2338.6
27.5°	2269.3	2362.9	2381.1	2382.5	2316.1
30°	2318.5	2355.8	2445.6	2382.5	2366.8
32.5°	2384.0	2370.6	2531.6	2409.3	2444.2
35°	2395.9	2401.2	2529.7	2437.0	2466.2
37.5°	2349.1	2407.4	2449.9	2444.7	2406.4
40°	2269.3	2362.9	2359.1	2386.4	2313.3
42.5°	2230.1	2276.0	2276.0	2295.6	2244.4
45°	2143.6	2135.5	2147.4	2155.6	2140.8
47.5°	1958.2	1942.9	1935.3	1963.5	1962.0
50°	1704.0	1694.0	1680.1	1713.6	1721.7
52.5°	1482.3	1461.3	1448.4	1457.9	1448.8
55°	1274.4	1286.4	1260.1	1264.9	1236.7
57.5°	1090.4	1117.2	1105.3	1101.4	1080.4
60°	873.0	891.7	878.8	884.5	865.9
62.5°	686.7	699.6	705.3	702.9	693.4
65°	553.3	559.6	568.6	562.9	560.0
67.5°	456.8	462.6	464.9	463.5	465.4
70°	387.5	389.0	391.8	387.5	393.3
72.5°	324.5	327.3	327.3	327.8	330.7
75°	263.3	262.3	263.8	261.9	263.8
77.5°	211.7	211.7	210.7	209.8	212.6
80°	173.5	171.5	171.1	170.6	172.5
82.5°	138.1	138.6	138.6	138.1	137.6
85°	109.9	110.4	110.4	109.9	110.4
87.5°	94.6	94.6	95.1	95.1	94.6
90°	90.8	91.3	90.8	91.7	91.7
92.5°	97.0	97.0	97.5	98.4	98.0
95°	108.5	108.0	107.5	108.9	109.4
97.5°	119.5	119.0	119.9	120.9	121.9
100°	131.9	131.9	132.8	133.3	134.3
102.5°	137.1	137.1	136.7	138.1	139.1
105°	145.7	144.3	142.4	142.9	143.8
107.5°	152.4	152.0	151.5	152.4	152.9
110°	162.5	162.0	162.0	162.0	162.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	172.5	172.5	172.0	172.5	173.5
115°	178.2	177.8	177.3	177.8	179.7
117.5°	179.7	179.7	178.7	180.1	181.6
120°	177.3	176.8	176.8	177.8	179.2
122.5°	171.1	170.6	170.6	171.5	173.0
125°	164.4	163.9	164.9	164.9	165.8
127.5°	159.6	160.1	161.0	160.1	160.6
130°	160.6	161.0	162.9	161.5	161.5
132.5°	165.8	166.3	169.6	168.7	168.7
135°	179.2	178.7	179.2	182.1	182.5
137.5°	194.5	190.7	185.4	195.0	197.4
140°	207.4	196.9	195.0	199.3	206.4
142.5°	197.8	192.1	187.3	193.0	197.4
145°	182.1	179.7	182.5	179.7	179.7
147.5°	163.9	167.2	173.5	164.9	164.4
150°	150.0	156.7	159.1	154.3	151.0
152.5°	143.8	146.7	148.1	145.7	145.7
155°	139.1	139.5	141.0	139.5	140.5
157.5°	135.7	137.1	137.1	137.1	136.7
160°	132.8	134.8	134.3	134.3	133.3
162.5°	130.9	131.9	131.4	131.4	131.4
165°	126.6	125.7	125.7	124.7	126.6
167.5°	119.5	118.0	118.0	117.6	119.0
170°	110.4	110.4	109.9	109.9	108.9
172.5°	95.6	95.1	94.6	94.6	94.6
175°	86.0	85.5	84.6	85.5	85.5
177.5°	78.8	78.8	79.3	78.4	78.4
180°	74.1	74.1	74.1	74.1	74.1

(END OF REPORT)