

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: P231425

Luminaire Tested: **SSLED-LD5-9-W-UNV-L835-CD1-U-FRR22-CLCDL22**

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: P231425
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1708-240-3)
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-L835-CD1-U-FRR22-CLCDL22
Description: STEELER WHITE REFRACTOR LENS AND CONICAL DROP
Light Source: (240) 3500 CCT, 80 CRI LEDS
Ballast/Driver: (1) ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8238.0 lumens
Efficiency: N/A
Efficacy: 128.5 lumens/watt
Spacing Criteria (0/90/45): 1.42 / 1.43 / 1.55
Luminous Opening: Vertical Cylinder (Dia: 1.67' x H: 1.17')
CIE Type: Semi-Direct

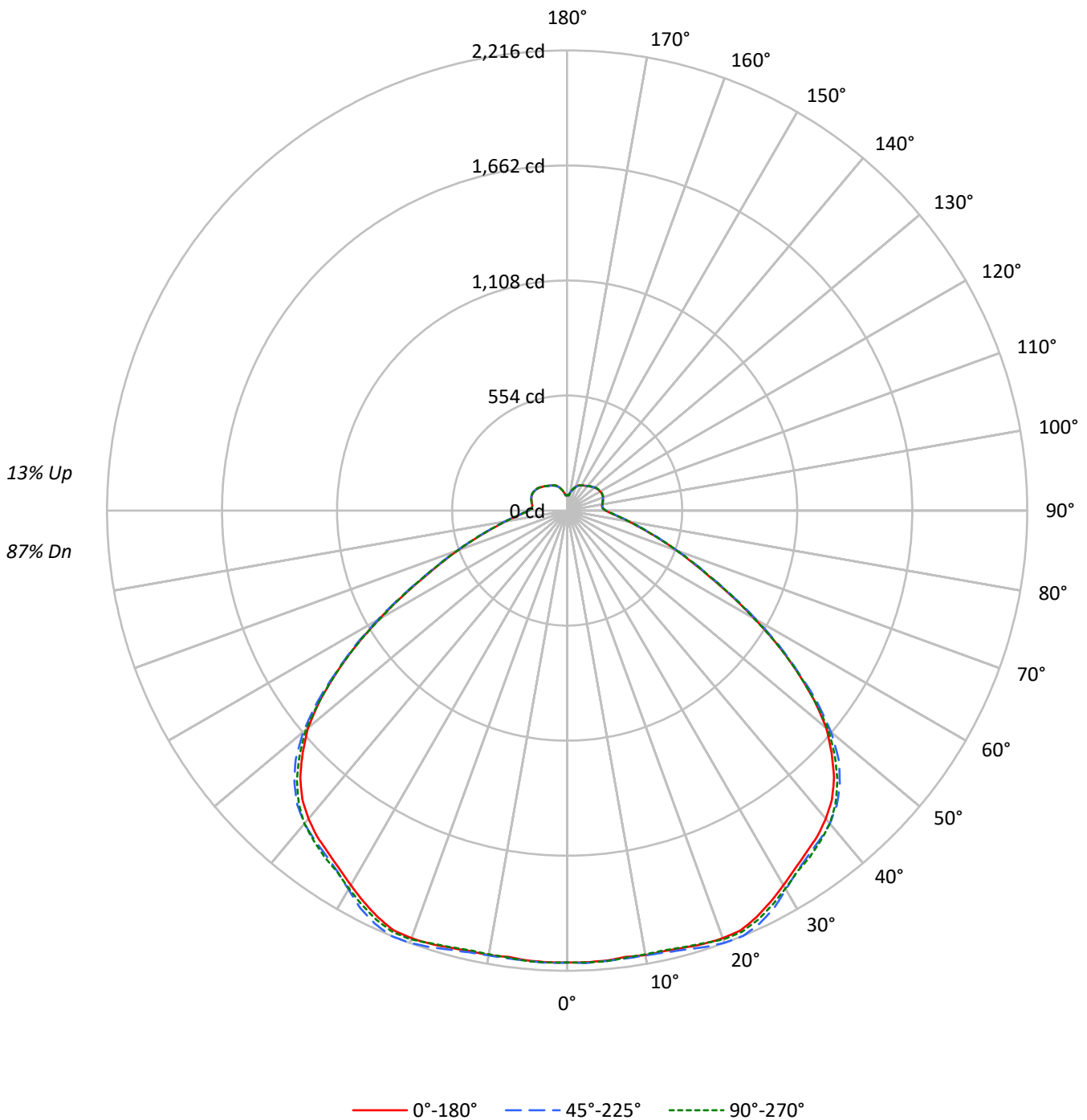
Input Watts (W): 64.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	104	104	97	97	97	90	90	90	87
1	106	101	96	92	101	97	93	90	91	87	85	85	82	80	79	77	75	72
2	96	88	81	75	92	85	79	73	79	74	70	74	70	66	69	66	63	60
3	87	77	69	62	84	74	67	61	70	63	58	65	60	56	61	57	53	51
4	80	68	59	53	77	66	58	52	62	55	50	58	52	48	54	50	46	43
5	73	61	52	45	70	59	50	44	55	48	43	52	46	41	49	44	39	37
6	68	54	45	39	65	53	44	38	50	42	37	47	41	36	44	39	35	32
7	62	49	40	34	60	48	40	34	45	38	33	42	36	32	40	35	31	28
8	58	45	36	30	56	43	35	30	41	34	29	39	33	28	37	31	27	25
9	54	41	33	27	52	40	32	27	38	31	26	36	30	25	34	28	24	22
10	51	37	30	24	49	37	29	24	35	28	23	33	27	23	31	26	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10737	10737	10737
5°	9993	10001	10009
10°	9409	9417	9393
15°	8984	9025	8972
20°	8688	8780	8713
25°	8304	8438	8362
30°	7837	7921	7904
35°	7450	7513	7554
40°	7140	7251	7254
45°	6706	6852	6791
50°	6063	6171	6110
55°	5115	5142	5120
60°	4047	4087	4025
65°	3053	3087	3067
70°	2345	2355	2336
75°	1792	1815	1797
80°	1415	1428	1411
85°	1146	1164	1158



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.5	2.5
10°-20°	619.4	7.5
20°-30°	1002.3	12.2
30°-40°	1274.0	15.5
40°-50°	1412.3	17.1
50°-60°	1209.9	14.7
60°-70°	773.8	9.4
70°-80°	441.3	5.4
80°-90°	256.1	3.1
90°-100°	189.3	2.3
100°-110°	188.3	2.3
110°-120°	184.1	2.2
120°-130°	161.2	2.0
130°-140°	126.7	1.5
140°-150°	92.3	1.1
150°-160°	61.2	0.7
160°-170°	30.6	0.4
170°-180°	7.5	0.1
0°-30°	1829.2	22.2
0°-40°	3103.2	37.7
0°-60°	5725.5	69.5
0°-90°	7196.8	87.4
90°-120°	561.7	6.8
90°-150°	941.9	11.4
90°-180°	1041.0	12.6
0°-180°	8238.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2176	2176	2176	2176	2176	
5°	2175	2174	2177	2174	2179	207
15°	2179	2183	2189	2181	2176	618
25°	2159	2172	2194	2173	2174	994
35°	2009	2028	2026	2037	2037	1261
45°	1818	1833	1857	1845	1841	1394
55°	1352	1359	1359	1356	1353	1204
65°	761	768	770	771	765	769
75°	407	408	412	409	408	439
85°	226	230	230	228	229	202
90°	185	186	187	186	185	102
95°	169	169	171	170	170	139
105°	177	178	178	178	178	188
115°	185	186	186	187	187	183
125°	179	180	180	180	181	161
135°	163	164	163	164	164	126
145°	146	146	146	146	146	92
155°	133	133	131	132	133	61
165°	107	107	106	106	106	31
175°	74	74	73	73	74	8
180°	74	74	74	74	74	



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CATALOG NUMBER: SSLED-LD5-9-W-UNV-L835-CD1-U-FRR22-CLCDL22

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2176.3	2176.3	2176.3	2176.3	2176.3
2.5°	2176.8	2180.3	2180.8	2178.1	2178.1
5°	2175.0	2174.5	2176.8	2174.5	2178.6
7.5°	2168.3	2168.7	2175.4	2171.4	2171.0
10°	2173.2	2168.7	2175.0	2169.6	2169.6
12.5°	2172.7	2171.9	2179.0	2172.7	2168.3
15°	2179.0	2183.0	2188.8	2181.2	2175.9
17.5°	2187.9	2192.9	2203.6	2189.3	2184.8
20°	2191.5	2193.7	2214.7	2193.7	2197.8
22.5°	2187.5	2190.6	2216.5	2190.6	2196.0
25°	2159.3	2172.3	2194.2	2172.7	2174.5
27.5°	2123.6	2145.5	2158.0	2147.7	2140.6
30°	2083.4	2112.4	2105.7	2117.8	2101.3
32.5°	2043.6	2071.8	2060.2	2078.0	2061.9
35°	2008.8	2028.4	2025.8	2037.4	2036.9
37.5°	1977.9	1989.6	1998.5	2003.4	2004.3
40°	1937.7	1953.8	1967.7	1964.5	1968.6
42.5°	1887.7	1905.1	1923.0	1913.6	1912.7
45°	1817.6	1832.7	1857.3	1844.8	1840.8
47.5°	1727.7	1756.3	1773.3	1759.9	1748.3
50°	1629.0	1643.3	1658.0	1650.4	1641.5
52.5°	1499.9	1500.8	1518.6	1508.4	1501.2
55°	1351.5	1358.7	1358.7	1356.0	1352.9
57.5°	1201.4	1206.8	1210.4	1206.3	1201.4
60°	1043.3	1049.1	1053.5	1051.7	1037.5
62.5°	895.4	901.2	903.9	898.5	899.8
65°	761.3	768.5	769.8	770.7	764.9
67.5°	651.4	656.8	659.9	657.2	656.8
70°	560.7	562.1	563.0	564.7	558.5
72.5°	478.5	479.0	481.2	481.6	478.1
75°	406.6	408.4	411.9	409.3	407.9
77.5°	347.2	349.8	351.6	352.5	350.7
80°	301.6	302.0	304.3	302.5	300.7
82.5°	261.8	261.8	263.2	263.2	262.3
85°	226.5	229.7	230.1	228.3	228.8
87.5°	202.8	204.2	204.6	203.7	203.3
90°	185.4	185.9	186.8	185.9	185.4
92.5°	174.2	175.1	175.6	175.1	175.6
95°	169.3	169.3	170.7	169.8	169.8
97.5°	169.3	169.3	170.7	170.2	169.8
100°	171.6	172.0	172.5	172.5	172.5
102.5°	174.2	174.7	175.1	175.1	175.1
105°	177.4	177.8	178.3	178.3	178.3
107.5°	180.5	181.0	181.4	181.4	181.4
110°	183.6	183.2	184.1	184.1	184.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	185.0	185.4	185.4	185.9	186.3
115°	185.4	185.9	185.9	186.8	186.8
117.5°	185.4	185.4	185.9	186.3	186.8
120°	183.6	184.1	184.5	185.0	185.4
122.5°	182.3	182.3	182.7	183.2	183.6
125°	179.2	179.6	180.1	180.5	181.0
127.5°	176.0	176.0	176.5	176.9	177.4
130°	172.5	172.5	172.9	173.4	173.8
132.5°	167.5	168.0	168.0	168.4	168.9
135°	163.1	163.5	163.1	163.5	164.0
137.5°	158.6	158.6	158.2	158.6	159.1
140°	153.7	154.1	153.7	154.1	154.1
142.5°	149.7	150.6	150.1	150.1	150.6
145°	146.5	146.5	146.1	146.1	146.5
147.5°	143.0	143.4	143.0	143.0	143.0
150°	139.4	139.8	139.0	139.4	139.4
152.5°	136.7	137.2	134.9	136.7	136.7
155°	133.1	133.1	130.9	132.3	133.1
157.5°	128.2	127.8	126.4	127.8	127.3
160°	122.0	122.4	121.1	121.5	121.1
162.5°	113.9	114.8	114.4	114.4	113.9
165°	106.8	106.8	106.3	105.9	106.3
167.5°	98.7	98.7	98.3	98.7	98.3
170°	88.9	89.8	89.4	89.8	88.9
172.5°	79.1	78.6	78.6	78.6	78.6
175°	73.7	73.7	73.3	73.3	73.7
177.5°	73.3	73.3	73.7	72.8	72.8
180°	74.2	74.2	74.2	74.2	74.2

(END OF REPORT)