

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: P231427

Luminaire Tested: **SSLED-LD5-9-W-UNV-L850-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: P231427
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-L850-CD1-U-FRR22-CLCDL22
Description: STEELER WHITE REFRACTOR LENS AND CONICAL DROP
Light Source: (240) 5000 CCT, 80 CRI LEDS
Ballast/Driver: (1) ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9089.0 lumens
Efficiency: N/A
Efficacy: 141.8 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

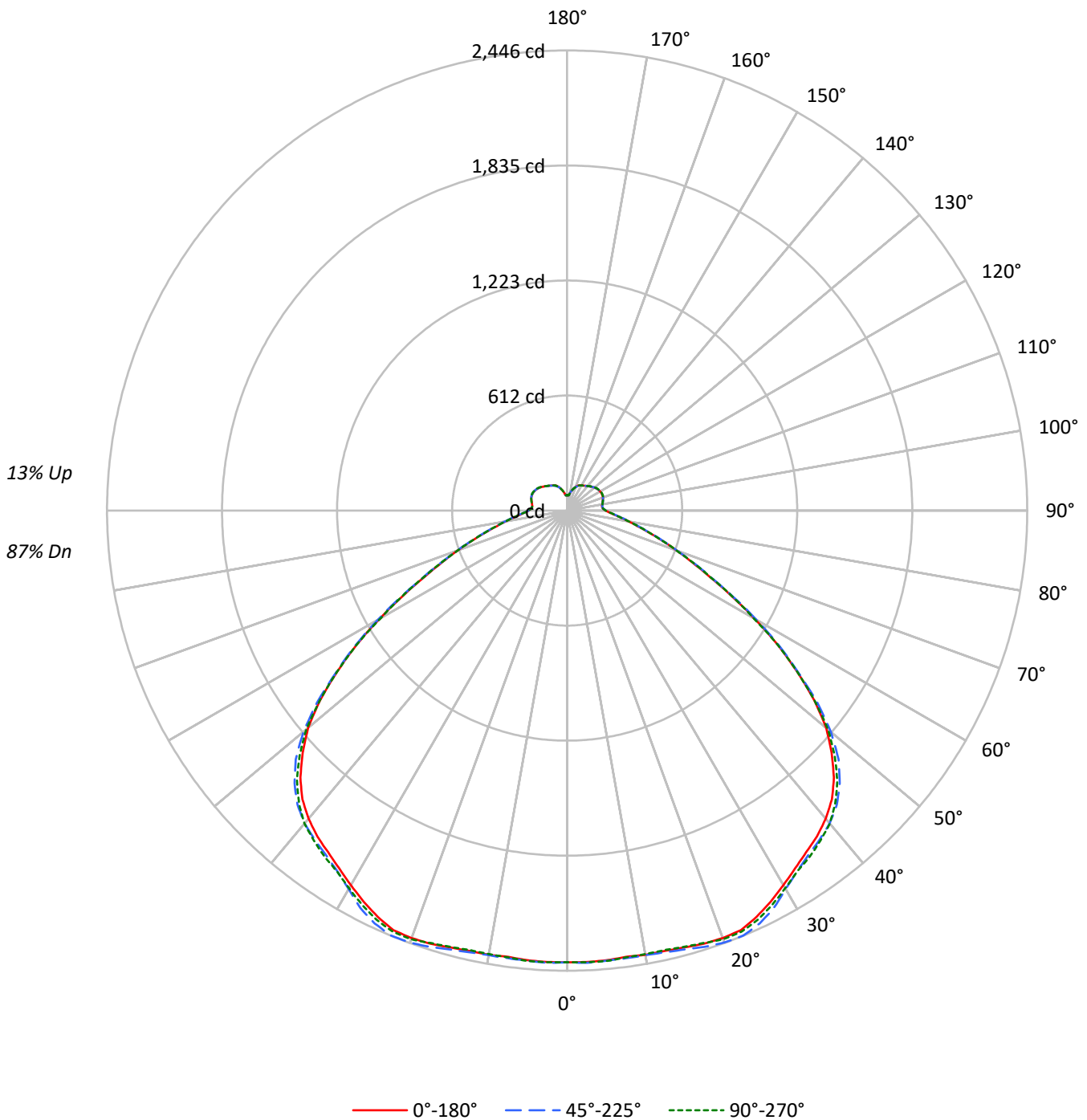
Input Watts (W): 64.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	11847	11847	11847
5°	11025	11034	11043
10°	10381	10390	10364
15°	9913	9957	9898
20°	9586	9687	9613
25°	9162	9310	9226
30°	8646	8739	8720
35°	8219	8289	8334
40°	7878	7999	8003
45°	7398	7560	7493
50°	6690	6809	6741
55°	5644	5673	5649
60°	4465	4509	4440
65°	3368	3406	3384
70°	2588	2598	2577
75°	1977	2003	1983
80°	1561	1575	1557
85°	1265	1285	1277



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CATALOG NUMBER: SSLED-LD5-9-W-UNV-L850-CD1-U-FRR22-CLCDL22

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.9	2.5
10°-20°	683.4	7.5
20°-30°	1105.8	12.2
30°-40°	1405.6	15.5
40°-50°	1558.2	17.1
50°-60°	1334.9	14.7
60°-70°	853.8	9.4
70°-80°	486.9	5.4
80°-90°	282.6	3.1
90°-100°	208.9	2.3
100°-110°	207.8	2.3
110°-120°	203.1	2.2
120°-130°	177.8	2.0
130°-140°	139.8	1.5
140°-150°	101.8	1.1
150°-160°	67.5	0.7
160°-170°	33.7	0.4
170°-180°	8.3	0.1
0°-30°	2018.2	22.2
0°-40°	3423.8	37.7
0°-60°	6317.0	69.5
0°-90°	7940.2	87.4
90°-120°	619.8	6.8
90°-150°	1039.2	11.4
90°-180°	1149.0	12.6
0°-180°	9089.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2401	2401	2401	2401	2401	
5°	2400	2399	2402	2399	2404	229
15°	2404	2408	2415	2407	2401	682
25°	2382	2397	2421	2397	2399	1097
35°	2216	2238	2235	2248	2247	1391
45°	2005	2022	2049	2035	2031	1538
55°	1491	1499	1499	1496	1493	1328
65°	840	848	849	850	844	848
75°	449	451	454	452	450	484
85°	250	253	254	252	252	222
90°	205	205	206	205	205	113
95°	187	187	188	187	187	154
105°	196	196	197	197	197	207
115°	205	205	205	206	206	202
125°	198	198	199	199	200	177
135°	180	180	180	180	181	140
145°	162	162	161	161	162	102
155°	147	147	144	146	147	68
165°	118	118	117	117	117	34
175°	81	81	81	81	81	8
180°	82	82	82	82	82	



TEST NUMBER: P231427

CATALOG NUMBER: SSLED-LD5-9-W-UNV-L850-CD1-U-FRR22-CLCDL22

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2401.1	2401.1	2401.1	2401.1	2401.1
2.5°	2401.6	2405.6	2406.1	2403.1	2403.1
5°	2399.7	2399.2	2401.6	2399.2	2403.6
7.5°	2392.3	2392.8	2400.2	2395.7	2395.2
10°	2397.7	2392.8	2399.7	2393.7	2393.7
12.5°	2397.2	2396.2	2404.1	2397.2	2392.3
15°	2404.1	2408.5	2414.9	2406.6	2400.6
17.5°	2414.0	2419.4	2431.2	2415.4	2410.5
20°	2417.9	2420.4	2443.5	2420.4	2424.8
22.5°	2413.5	2416.9	2445.5	2416.9	2422.8
25°	2382.4	2396.7	2420.9	2397.2	2399.2
27.5°	2343.0	2367.1	2380.9	2369.6	2361.7
30°	2298.6	2330.7	2323.3	2336.6	2318.3
32.5°	2254.7	2285.8	2273.0	2292.7	2274.9
35°	2216.3	2238.0	2235.0	2247.8	2247.3
37.5°	2182.3	2195.1	2204.9	2210.4	2211.4
40°	2137.9	2155.7	2170.9	2167.5	2171.9
42.5°	2082.7	2101.9	2121.6	2111.3	2110.3
45°	2005.3	2022.1	2049.2	2035.4	2030.9
47.5°	1906.2	1937.8	1956.5	1941.7	1928.9
50°	1797.3	1813.1	1829.3	1820.9	1811.1
52.5°	1654.8	1655.8	1675.5	1664.2	1656.3
55°	1491.2	1499.1	1499.1	1496.1	1492.6
57.5°	1325.5	1331.4	1335.4	1331.0	1325.5
60°	1151.0	1157.4	1162.4	1160.4	1144.6
62.5°	987.9	994.3	997.2	991.3	992.8
65°	840.0	847.9	849.3	850.3	843.9
67.5°	718.7	724.6	728.1	725.1	724.6
70°	618.6	620.1	621.1	623.1	616.2
72.5°	527.9	528.4	530.9	531.4	527.5
75°	448.6	450.6	454.5	451.5	450.1
77.5°	383.0	386.0	387.9	388.9	387.0
80°	332.7	333.2	335.7	333.7	331.8
82.5°	288.9	288.9	290.3	290.3	289.4
85°	249.9	253.4	253.9	251.9	252.4
87.5°	223.8	225.3	225.8	224.8	224.3
90°	204.6	205.1	206.1	205.1	204.6
92.5°	192.2	193.2	193.7	193.2	193.7
95°	186.8	186.8	188.3	187.3	187.3
97.5°	186.8	186.8	188.3	187.8	187.3
100°	189.3	189.8	190.3	190.3	190.3
102.5°	192.2	192.7	193.2	193.2	193.2
105°	195.7	196.2	196.7	196.7	196.7
107.5°	199.2	199.6	200.1	200.1	200.1
110°	202.6	202.1	203.1	203.1	203.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	204.1	204.6	204.6	205.1	205.6
115°	204.6	205.1	205.1	206.1	206.1
117.5°	204.6	204.6	205.1	205.6	206.1
120°	202.6	203.1	203.6	204.1	204.6
122.5°	201.1	201.1	201.6	202.1	202.6
125°	197.7	198.2	198.7	199.2	199.6
127.5°	194.2	194.2	194.7	195.2	195.7
130°	190.3	190.3	190.8	191.3	191.8
132.5°	184.9	185.3	185.3	185.8	186.3
135°	179.9	180.4	179.9	180.4	180.9
137.5°	175.0	175.0	174.5	175.0	175.5
140°	169.6	170.1	169.6	170.1	170.1
142.5°	165.1	166.1	165.6	165.6	166.1
145°	161.7	161.7	161.2	161.2	161.7
147.5°	157.7	158.2	157.7	157.7	157.7
150°	153.8	154.3	153.3	153.8	153.8
152.5°	150.8	151.3	148.9	150.8	150.8
155°	146.9	146.9	144.4	145.9	146.9
157.5°	141.5	141.0	139.5	141.0	140.5
160°	134.6	135.1	133.6	134.1	133.6
162.5°	125.7	126.7	126.2	126.2	125.7
165°	117.8	117.8	117.3	116.8	117.3
167.5°	108.9	108.9	108.4	108.9	108.4
170°	98.1	99.1	98.6	99.1	98.1
172.5°	87.3	86.8	86.8	86.8	86.8
175°	81.3	81.3	80.8	80.8	81.3
177.5°	80.8	80.8	81.3	80.4	80.4
180°	81.8	81.8	81.8	81.8	81.8

(END OF REPORT)