

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: P231442

Luminaire Tested: **SSLED-LD5-30-W-UNV-L850-CD2-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: P231442
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-LD5-30-W-UNV-L850-CD2-U-FRR22-CLCDL22
Description: STEELER WHITE REFRACTOR LENS AND CONICAL DROP
Light Source: (240) 5000 CCT, 80 CRI LEDS
Ballast/Driver: (2) ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29929.0 lumens
Efficiency: N/A
Efficacy: 112.4 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

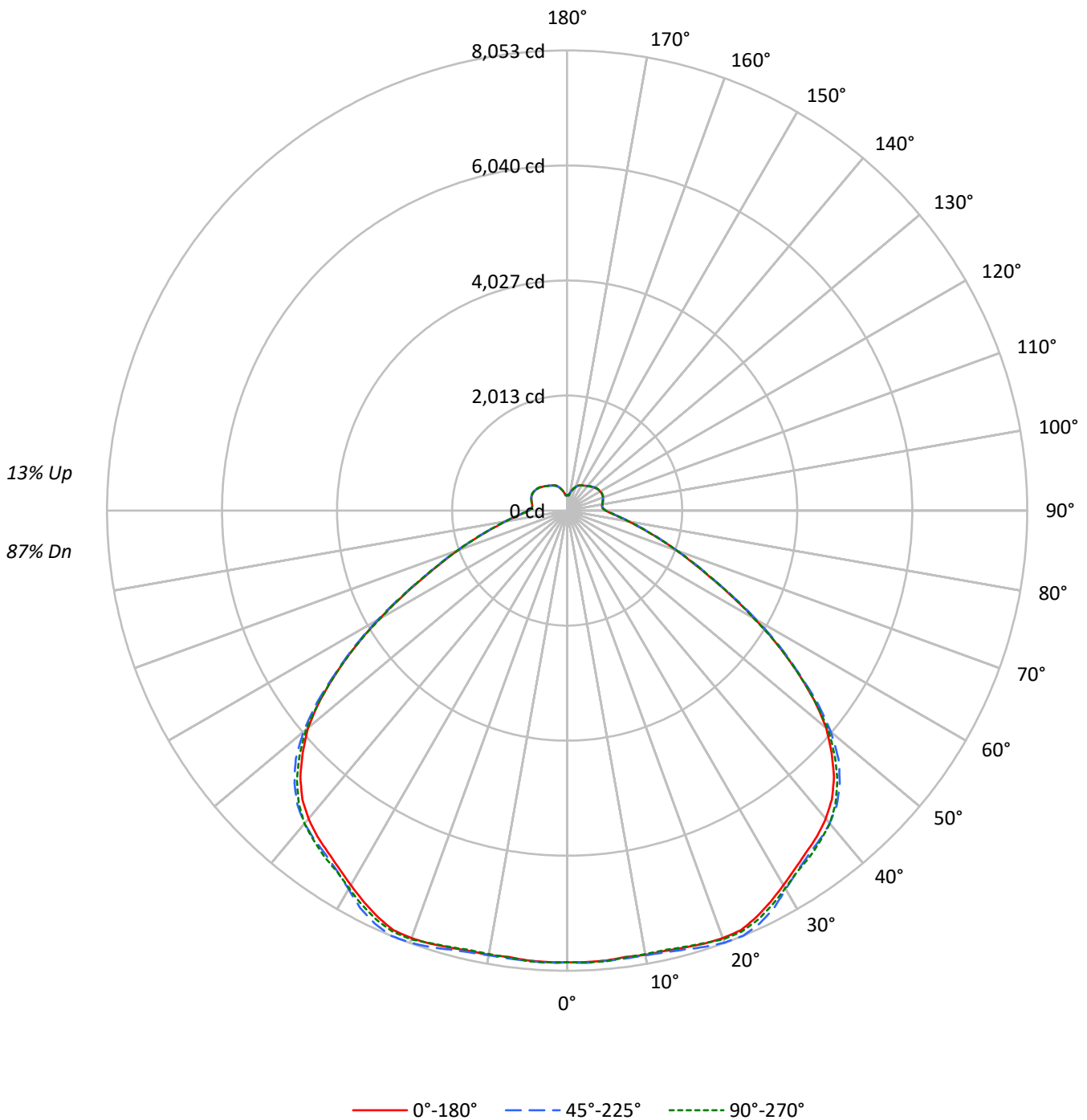
Input Watts (W): 266.35
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	39010	39010	39010
5°	36304	36334	36364
10°	34183	34211	34127
15°	32641	32788	32594
20°	31564	31899	31654
25°	30169	30656	30381
30°	28471	28776	28715
35°	27066	27294	27445
40°	25941	26342	26354
45°	24361	24894	24673
50°	22028	22421	22198
55°	18583	18681	18602
60°	14703	14848	14621
65°	11092	11215	11143
70°	8521	8555	8487
75°	6509	6594	6530
80°	5142	5187	5126
85°	4165	4230	4205



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	753.8	2.5
10°-20°	2250.5	7.5
20°-30°	3641.4	12.2
30°-40°	4628.5	15.5
40°-50°	5131.1	17.1
50°-60°	4395.8	14.7
60°-70°	2811.4	9.4
70°-80°	1603.2	5.4
80°-90°	930.6	3.1
90°-100°	687.9	2.3
100°-110°	684.1	2.3
110°-120°	668.8	2.2
120°-130°	585.6	2.0
130°-140°	460.5	1.5
140°-150°	335.2	1.1
150°-160°	222.3	0.7
160°-170°	111.1	0.4
170°-180°	27.4	0.1
0°-30°	6645.6	22.2
0°-40°	11274.1	37.7
0°-60°	20801.0	69.5
0°-90°	26146.2	87.4
90°-120°	2040.8	6.8
90°-150°	3422.0	11.4
90°-180°	3783.0	12.6
0°-180°	29929.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7907	7907	7907	7907	7907	
5°	7902	7900	7908	7900	7915	753
15°	7916	7931	7952	7924	7905	2247
25°	7845	7892	7972	7894	7900	3613
35°	7298	7369	7360	7402	7400	4582
45°	6603	6658	6748	6702	6688	5064
55°	4910	4936	4936	4926	4915	4373
65°	2766	2792	2797	2800	2779	2793
75°	1477	1484	1497	1487	1482	1595
85°	823	834	836	830	831	732
90°	674	675	678	675	674	372
95°	615	615	620	617	617	506
105°	644	646	648	648	648	682
115°	674	675	675	678	678	667
125°	651	652	654	656	657	583
135°	592	594	592	594	596	460
145°	532	532	531	531	532	335
155°	484	484	476	480	484	223
165°	388	388	386	385	386	111
175°	268	268	266	266	268	27
180°	270	270	270	270	270	



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CATALOG NUMBER: SSLED-LD5-30-W-UNV-L850-CD2-U-FRR22-CLCDL22

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7906.7	7906.7	7906.7	7906.7	7906.7
2.5°	7908.3	7921.3	7922.9	7913.2	7913.2
5°	7901.8	7900.2	7908.3	7900.2	7914.8
7.5°	7877.5	7879.1	7903.4	7888.8	7887.2
10°	7895.3	7879.1	7901.8	7882.3	7882.3
12.5°	7893.7	7890.4	7916.4	7893.7	7877.5
15°	7916.4	7931.0	7952.1	7924.5	7905.1
17.5°	7948.9	7966.7	8005.7	7953.8	7937.5
20°	7961.9	7970.0	8046.3	7970.0	7984.6
22.5°	7947.3	7958.6	8052.8	7958.6	7978.1
25°	7845.0	7892.1	7971.6	7893.7	7900.2
27.5°	7715.1	7794.7	7840.1	7802.8	7776.8
30°	7569.0	7674.6	7650.2	7694.0	7634.0
32.5°	7424.6	7526.8	7484.6	7549.6	7491.1
35°	7298.0	7369.4	7359.7	7401.9	7400.2
37.5°	7186.0	7228.2	7260.6	7278.5	7281.7
40°	7039.9	7098.3	7148.6	7137.3	7151.9
42.5°	6858.1	6921.4	6986.3	6952.2	6949.0
45°	6603.2	6658.4	6747.7	6702.3	6687.6
47.5°	6277.0	6380.9	6442.5	6393.8	6351.6
50°	5918.2	5970.2	6023.7	5996.2	5963.7
52.5°	5449.1	5452.4	5517.3	5480.0	5454.0
55°	4910.2	4936.2	4936.2	4926.5	4915.1
57.5°	4364.8	4384.3	4397.3	4382.7	4364.8
60°	3790.2	3811.3	3827.5	3821.0	3769.1
62.5°	3252.9	3274.0	3283.8	3264.3	3269.2
65°	2766.0	2791.9	2796.8	2800.0	2778.9
67.5°	2366.6	2386.1	2397.5	2387.7	2386.1
70°	2037.1	2042.0	2045.3	2051.7	2029.0
72.5°	1738.5	1740.1	1748.2	1749.8	1736.8
75°	1477.1	1483.6	1496.6	1486.9	1482.0
77.5°	1261.2	1271.0	1277.5	1280.7	1274.2
80°	1095.7	1097.3	1105.4	1098.9	1092.4
82.5°	951.2	951.2	956.1	956.1	952.8
85°	823.0	834.3	836.0	829.5	831.1
87.5°	736.9	741.8	743.4	740.2	738.6
90°	673.6	675.3	678.5	675.3	673.6
92.5°	633.1	636.3	637.9	636.3	637.9
95°	615.2	615.2	620.1	616.8	616.8
97.5°	615.2	615.2	620.1	618.4	616.8
100°	623.3	624.9	626.6	626.6	626.6
102.5°	633.1	634.7	636.3	636.3	636.3
105°	644.4	646.0	647.7	647.7	647.7
107.5°	655.8	657.4	659.0	659.0	659.0
110°	667.1	665.5	668.8	668.8	670.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	672.0	673.6	673.6	675.3	676.9
115°	673.6	675.3	675.3	678.5	678.5
117.5°	673.6	673.6	675.3	676.9	678.5
120°	667.1	668.8	670.4	672.0	673.6
122.5°	662.3	662.3	663.9	665.5	667.1
125°	650.9	652.5	654.2	655.8	657.4
127.5°	639.5	639.5	641.2	642.8	644.4
130°	626.6	626.6	628.2	629.8	631.4
132.5°	608.7	610.3	610.3	612.0	613.6
135°	592.5	594.1	592.5	594.1	595.7
137.5°	576.2	576.2	574.6	576.2	577.9
140°	558.4	560.0	558.4	560.0	560.0
142.5°	543.8	547.0	545.4	545.4	547.0
145°	532.4	532.4	530.8	530.8	532.4
147.5°	519.4	521.1	519.4	519.4	519.4
150°	506.4	508.1	504.8	506.4	506.4
152.5°	496.7	498.3	490.2	496.7	496.7
155°	483.7	483.7	475.6	480.5	483.7
157.5°	465.9	464.2	459.4	464.2	462.6
160°	443.1	444.8	439.9	441.5	439.9
162.5°	413.9	417.2	415.5	415.5	413.9
165°	387.9	387.9	386.3	384.7	386.3
167.5°	358.7	358.7	357.1	358.7	357.1
170°	323.0	326.3	324.6	326.3	323.0
172.5°	287.3	285.7	285.7	285.7	285.7
175°	267.8	267.8	266.2	266.2	267.8
177.5°	266.2	266.2	267.8	264.6	264.6
180°	269.5	269.5	269.5	269.5	269.5

(END OF REPORT)