

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: P231505

Luminaire Tested: **SSLED-LD5-30-W-UNV-L850-CD2-U-CLR22-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: P231505
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1708-240-6)
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-CLR22-CLCDL22
Description: STEELER CLEAR 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: 29416.0 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Spacing Criteria (0/90/45): 1.63 / 1.67 / 1.65
Luminous Opening: Vertical Cylinder (Dia: 1.67' x H: 1.17')
CIE Type: Direct

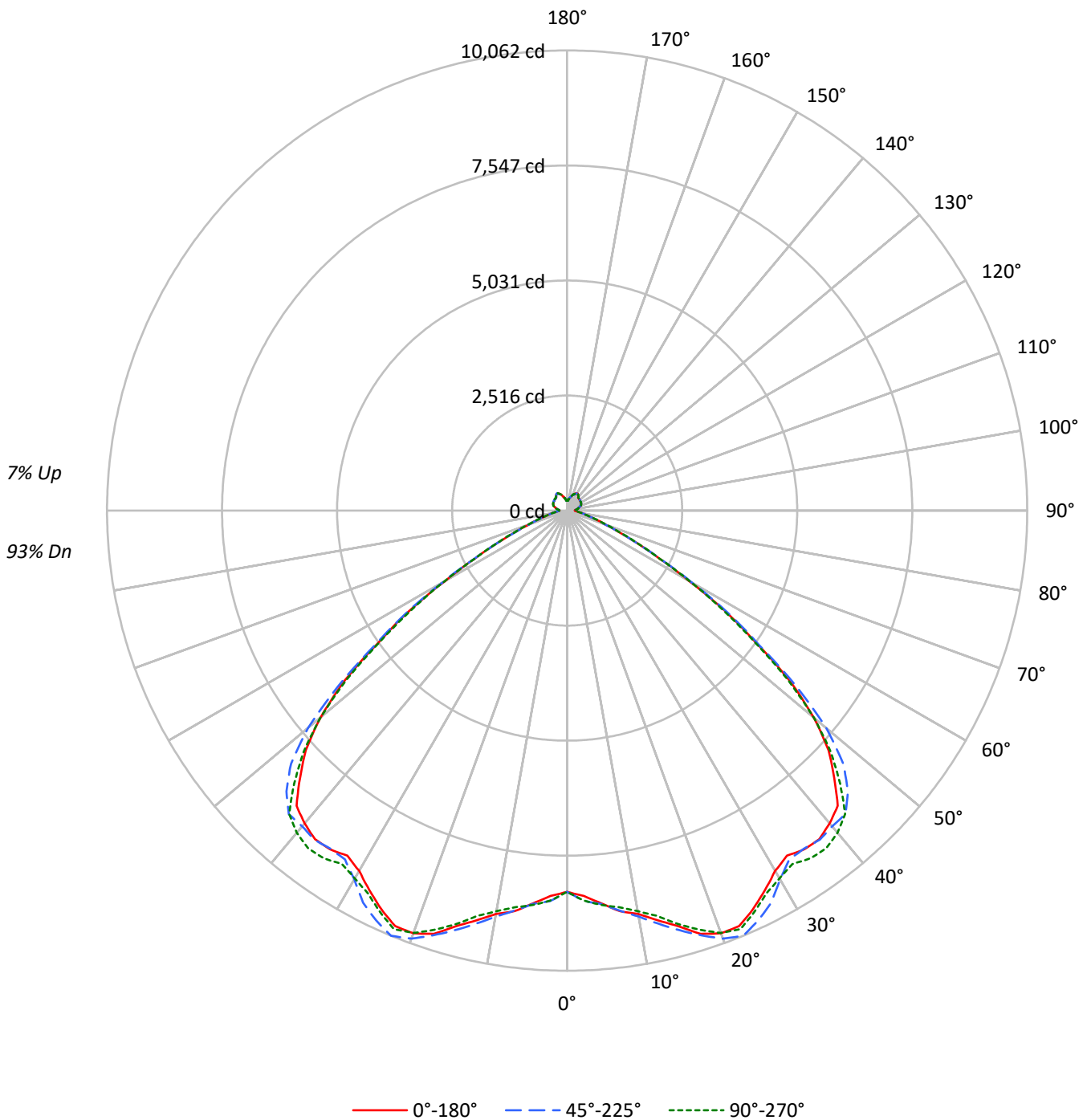
Input Watts (W): 266.35
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P231505

CATALOG NUMBER: SSLED-LD5-30-W-UNV-L850-CD2-U-CLR22-CLCDL22

Luminous Intensity Polar Plot





TEST NUMBER: P231505

CATALOG NUMBER: SSLED-LD5-30-W-UNV-L850-CD2-U-CLR22-CLCDL22

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	50	30	10	0		
RCR																										
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93					93			
1	109	105	101	98	105	102	98	95	96	94	91	91	89	87	87	85	84	81					81			
2	100	93	87	82	97	90	85	80	86	81	77	82	78	75	78	75	72	70					70			
3	92	82	75	69	89	80	73	68	76	71	66	73	68	64	69	65	62	60					60			
4	84	73	65	59	81	71	64	58	68	62	57	65	60	55	62	58	54	52					52			
5	78	66	57	51	75	64	56	50	61	54	49	59	53	48	56	51	47	45					45			
6	72	59	51	44	69	58	50	44	55	48	43	53	47	42	51	46	41	39					39			
7	66	53	45	39	64	52	44	39	50	43	38	48	42	37	46	41	37	35					35			
8	62	49	40	35	60	48	40	34	46	39	34	44	38	33	42	37	33	31					31			
9	57	44	36	31	56	44	36	31	42	35	30	40	34	30	39	33	29	28					28			
10	54	41	33	28	52	40	33	28	39	32	27	37	31	27	36	30	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	41124	41124	41124
5°	39608	39675	39780
10°	38765	39025	38505
15°	38792	39173	38584
20°	38997	39486	38965
25°	36979	38028	37241
30°	34217	35011	34931
35°	33531	33471	34416
40°	32903	33208	33890
45°	30476	32027	31141
50°	26197	27533	26209
55°	19118	19388	18884
60°	11970	12273	12071
65°	6744	6737	6874
70°	3748	3680	3918
75°	2239	2260	2296
80°	1569	1554	1562
85°	1076	1084	1076



TEST NUMBER: P231505

CATALOG NUMBER: SSLED-LD5-30-W-UNV-L850-CD2-U-CLR22-CLCDL22

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	834.1	2.8
10°-20°	2680.7	9.1
20°-30°	4462.3	15.2
30°-40°	5740.2	19.5
40°-50°	6485.5	22.0
50°-60°	4606.0	15.7
60°-70°	1776.6	6.0
70°-80°	584.3	2.0
80°-90°	248.7	0.8
90°-100°	212.9	0.7
100°-110°	289.6	1.0
110°-120°	333.0	1.1
120°-130°	317.1	1.1
130°-140°	284.1	1.0
140°-150°	258.8	0.9
150°-160°	187.2	0.6
160°-170°	91.8	0.3
170°-180°	23.3	0.1
0°-30°	7977.1	27.1
0°-40°	13717.3	46.6
0°-60°	24808.8	84.3
0°-90°	27418.3	93.2
90°-120°	835.5	2.8
90°-150°	1695.4	5.8
90°-180°	1998.0	6.8
0°-180°	29416.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8335	8335	8335	8335	8335	
5°	8621	8616	8636	8597	8658	835
15°	9408	9450	9501	9421	9358	2684
25°	9616	9567	9889	9639	9684	4418
35°	9041	9046	9025	9197	9280	5663
45°	8261	8389	8681	8519	8441	6322
55°	5052	5180	5123	5115	4990	4543
65°	1682	1654	1680	1682	1714	1764
75°	508	519	513	516	521	583
85°	213	214	214	214	213	200
90°	167	169	169	170	169	94
95°	185	185	187	188	190	163
105°	278	274	266	271	270	291
115°	338	336	336	339	341	332
125°	352	352	356	354	356	316
135°	365	364	365	370	373	283
145°	419	419	419	422	424	258
155°	406	404	391	403	403	189
165°	308	315	313	312	305	90
175°	224	221	221	221	221	23
180°	242	242	242	242	242	



TEST NUMBER: P231505

CATALOG NUMBER: SSLED-LD5-30-W-UNV-L850-CD2-U-CLR22-CLCDL22

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8335.2	8335.2	8335.2	8335.2	8335.2
2.5°	8435.9	8533.3	8546.3	8474.8	8538.1
5°	8620.9	8616.1	8635.5	8596.6	8658.3
7.5°	8836.8	8807.6	8822.2	8773.5	8747.5
10°	8953.7	8947.2	9013.7	8944.0	8893.6
12.5°	9177.7	9164.7	9255.6	9151.7	9077.1
15°	9408.2	9450.4	9500.7	9421.2	9357.9
17.5°	9705.2	9611.1	9736.1	9599.7	9607.8
20°	9836.7	9705.2	9960.1	9724.7	9828.6
22.5°	9835.1	9760.4	10062.4	9700.4	9904.9
25°	9616.0	9567.3	9888.7	9638.7	9684.1
27.5°	9361.1	9453.6	9663.0	9538.0	9434.2
30°	9096.5	9385.5	9307.6	9518.6	9286.5
32.5°	8947.2	9224.8	9043.0	9379.0	9163.1
35°	9041.3	9046.2	9025.1	9197.2	9280.0
37.5°	9057.6	8992.6	9073.8	9117.6	9307.6
40°	8929.3	8965.1	9012.1	9119.3	9197.2
42.5°	8757.3	8797.9	9005.6	8929.3	8997.5
45°	8260.6	8388.8	8681.0	8518.7	8440.8
47.5°	7755.8	8059.3	8190.8	8150.2	7822.3
50°	7038.3	7291.5	7397.0	7374.3	7041.5
52.5°	6174.7	6215.3	6317.6	6234.8	6085.5
55°	5051.5	5179.7	5122.9	5114.8	4989.8
57.5°	4121.4	4196.0	4181.4	4160.3	4017.5
60°	3085.7	3144.2	3163.7	3157.2	3111.7
62.5°	2285.5	2296.9	2305.0	2339.1	2277.4
65°	1681.7	1654.1	1680.0	1681.7	1714.1
67.5°	1204.4	1194.7	1209.3	1217.4	1258.0
70°	896.0	884.7	879.8	905.8	936.6
72.5°	686.6	676.9	681.8	693.1	698.0
75°	508.1	519.4	512.9	516.2	521.1
77.5°	404.2	402.6	399.3	400.9	405.8
80°	334.4	331.1	331.1	327.9	332.8
82.5°	266.2	269.5	267.8	269.5	269.5
85°	212.6	214.3	214.3	214.3	212.6
87.5°	178.6	180.2	178.6	181.8	180.2
90°	167.2	168.8	168.8	170.4	168.8
92.5°	170.4	173.7	173.7	176.9	175.3
95°	185.0	185.0	186.7	188.3	189.9
97.5°	211.0	212.6	215.9	217.5	217.5
100°	235.4	238.6	240.2	241.9	245.1
102.5°	250.0	250.0	250.0	253.2	253.2
105°	277.6	274.3	266.2	271.1	269.5
107.5°	297.0	293.8	292.2	297.0	300.3
110°	318.2	314.9	313.3	318.2	321.4



TEST NUMBER: P231505

CATALOG NUMBER: SSLED-LD5-30-W-UNV-L850-CD2-U-CLR22-CLCDL22

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	327.9	326.3	326.3	329.5	332.8
115°	337.6	336.0	336.0	339.3	340.9
117.5°	342.5	342.5	345.7	345.7	347.4
120°	344.1	345.7	349.0	349.0	349.0
122.5°	349.0	347.4	352.2	350.6	352.2
125°	352.2	352.2	355.5	353.9	355.5
127.5°	355.5	353.9	357.1	357.1	357.1
130°	358.7	358.7	362.0	362.0	362.0
132.5°	362.0	360.4	363.6	365.2	368.5
135°	365.2	363.6	365.2	370.1	373.3
137.5°	368.5	366.8	366.8	371.7	376.6
140°	373.3	375.0	371.7	376.6	378.2
142.5°	396.1	396.1	391.2	396.1	402.6
145°	418.8	418.8	418.8	422.0	423.7
147.5°	430.2	431.8	433.4	433.4	435.0
150°	433.4	433.4	433.4	433.4	435.0
152.5°	428.5	426.9	417.2	425.3	426.9
155°	405.8	404.2	391.2	402.6	402.6
157.5°	386.3	384.7	371.7	383.1	384.7
160°	371.7	379.8	366.8	378.2	370.1
162.5°	336.0	352.2	344.1	347.4	334.4
165°	308.4	314.9	313.3	311.7	305.2
167.5°	290.6	297.0	293.8	295.4	285.7
170°	272.7	277.6	279.2	274.3	267.8
172.5°	241.9	245.1	250.0	241.9	241.9
175°	224.0	220.8	220.8	220.8	220.8
177.5°	232.1	232.1	233.7	228.9	228.9
180°	241.9	241.9	241.9	241.9	241.9

(END OF REPORT)