

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: P231504

Luminaire Tested: **SSLED-LD5-30-W-UNV-L840-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: P231504
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-L840-CD2-U-CLR22-CLCDL22
Description: STEELER CLEAR REFRACTOR LENS AND CONICAL DROP
Light Source: (240) 4000 CCT, 80 CRI LEDS
Ballast/Driver: (2) ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28514.0 lumens
Efficiency: N/A
Efficacy: 107.1 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

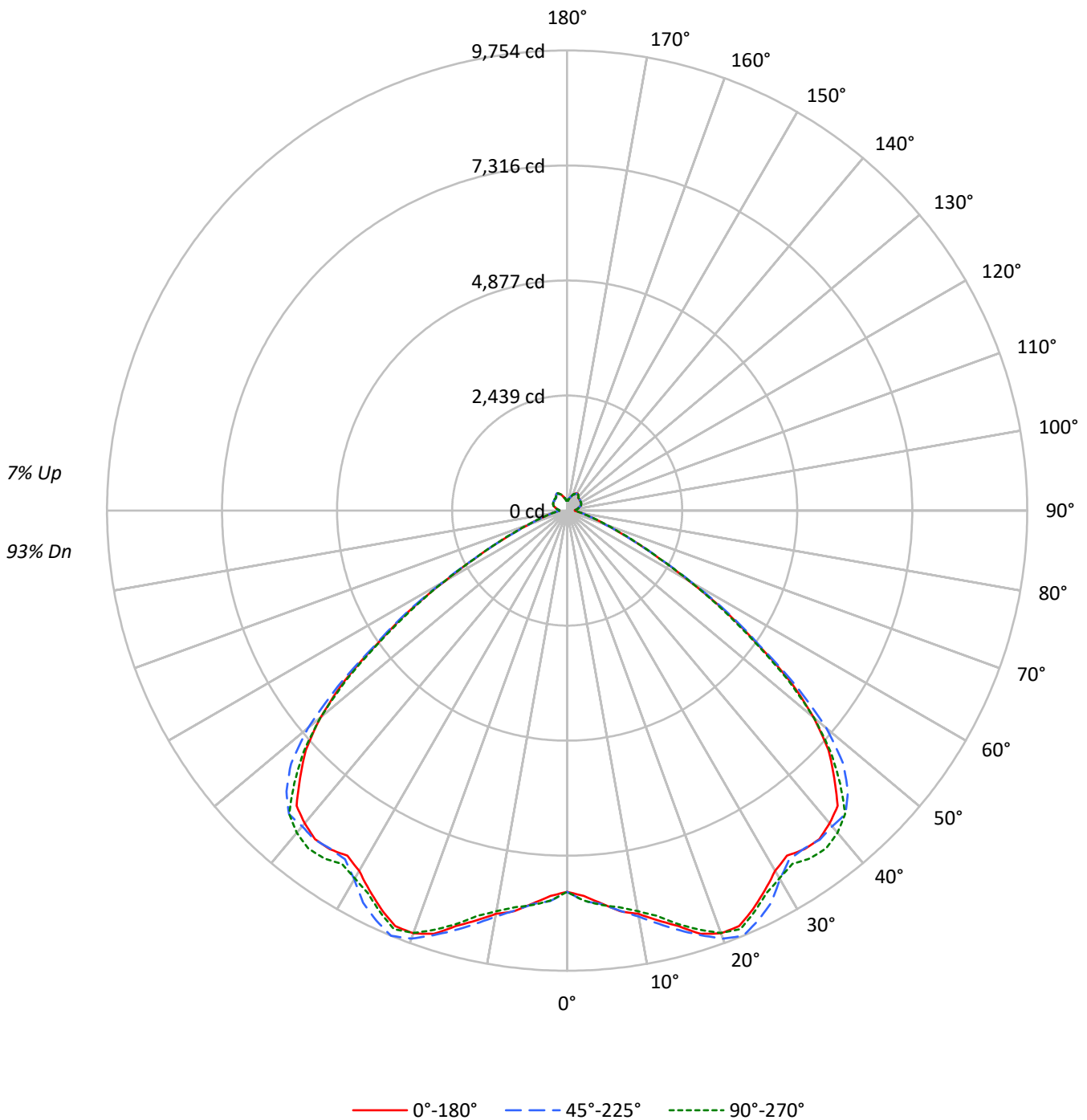
Input Watts (W): 266.35
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	39864	39864	39864
5°	38394	38458	38560
10°	37576	37829	37324
15°	37602	37972	37401
20°	37801	38275	37770
25°	35845	36862	36099
30°	33167	33937	33860
35°	32503	32445	33361
40°	31894	32190	32851
45°	29541	31045	30186
50°	25394	26688	25406
55°	18532	18793	18305
60°	11603	11896	11701
65°	6537	6530	6663
70°	3633	3567	3798
75°	2170	2191	2226
80°	1521	1506	1514
85°	1043	1051	1043



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CATALOG NUMBER: SSLED-LD5-30-W-UNV-L840-CD2-U-CLR22-CLCDL22

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	808.6	2.8
10°-20°	2598.5	9.1
20°-30°	4325.5	15.2
30°-40°	5564.1	19.5
40°-50°	6286.7	22.0
50°-60°	4464.7	15.7
60°-70°	1722.1	6.0
70°-80°	566.4	2.0
80°-90°	241.0	0.8
90°-100°	206.4	0.7
100°-110°	280.7	1.0
110°-120°	322.7	1.1
120°-130°	307.4	1.1
130°-140°	275.4	1.0
140°-150°	250.8	0.9
150°-160°	181.5	0.6
160°-170°	89.0	0.3
170°-180°	22.6	0.1
0°-30°	7732.5	27.1
0°-40°	13296.7	46.6
0°-60°	24048.1	84.3
0°-90°	26577.6	93.2
90°-120°	809.8	2.8
90°-150°	1643.4	5.8
90°-180°	1936.0	6.8
0°-180°	28514.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8080	8080	8080	8080	8080	
5°	8357	8352	8371	8333	8393	809
15°	9120	9161	9209	9132	9071	2602
25°	9321	9274	9585	9343	9387	4283
35°	8764	8769	8748	8915	8995	5489
45°	8007	8132	8415	8258	8182	6128
55°	4897	5021	4966	4958	4837	4404
65°	1630	1603	1628	1630	1662	1709
75°	492	504	497	500	505	565
85°	206	208	208	208	206	194
90°	162	164	164	165	164	91
95°	179	179	181	182	184	158
105°	269	266	258	263	261	282
115°	327	326	326	329	330	322
125°	341	341	345	343	345	306
135°	354	352	354	359	362	274
145°	406	406	406	409	411	250
155°	393	392	379	390	390	183
165°	299	305	304	302	296	88
175°	217	214	214	214	214	22
180°	234	234	234	234	234	



TEST NUMBER: P231504

CATALOG NUMBER: SSLED-LD5-30-W-UNV-L840-CD2-U-CLR22-CLCDL22

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8079.7	8079.7	8079.7	8079.7	8079.7
2.5°	8177.2	8271.6	8284.2	8215.0	8276.3
5°	8356.6	8351.9	8370.7	8333.0	8392.8
7.5°	8565.8	8537.5	8551.7	8504.5	8479.3
10°	8679.1	8672.8	8737.4	8669.7	8620.9
12.5°	8896.3	8883.7	8971.8	8871.1	8798.7
15°	9119.7	9160.6	9209.4	9132.3	9070.9
17.5°	9407.6	9316.4	9437.5	9305.4	9313.2
20°	9535.1	9407.6	9654.7	9426.5	9527.2
22.5°	9533.5	9461.1	9753.8	9402.9	9601.2
25°	9321.1	9273.9	9585.4	9343.1	9387.2
27.5°	9074.1	9163.8	9366.7	9245.6	9144.9
30°	8817.6	9097.7	9022.1	9226.7	9001.7
32.5°	8672.8	8941.9	8765.7	9091.4	8882.1
35°	8764.1	8768.8	8748.4	8915.2	8995.4
37.5°	8779.8	8716.9	8795.6	8838.1	9022.1
40°	8655.5	8690.2	8735.8	8839.6	8915.2
42.5°	8488.8	8528.1	8729.5	8655.5	8721.6
45°	8007.3	8131.6	8414.8	8257.5	8181.9
47.5°	7517.9	7812.2	7939.6	7900.3	7582.4
50°	6822.5	7067.9	7170.2	7148.2	6825.6
52.5°	5985.4	6024.7	6123.9	6043.6	5898.9
55°	4896.6	5020.9	4965.8	4957.9	4836.8
57.5°	3995.0	4067.4	4053.2	4032.7	3894.3
60°	2991.1	3047.8	3066.6	3060.4	3016.3
62.5°	2215.4	2226.4	2234.3	2267.3	2207.5
65°	1630.1	1603.3	1628.5	1630.1	1661.6
67.5°	1167.5	1158.1	1172.2	1180.1	1219.4
70°	868.5	857.5	852.8	878.0	907.9
72.5°	665.6	656.1	660.8	671.9	676.6
75°	492.5	503.5	497.2	500.4	505.1
77.5°	391.8	390.2	387.1	388.6	393.4
80°	324.1	321.0	321.0	317.8	322.6
82.5°	258.0	261.2	259.6	261.2	261.2
85°	206.1	207.7	207.7	207.7	206.1
87.5°	173.1	174.7	173.1	176.2	174.7
90°	162.1	163.6	163.6	165.2	163.6
92.5°	165.2	168.4	168.4	171.5	169.9
95°	179.4	179.4	180.9	182.5	184.1
97.5°	204.5	206.1	209.3	210.8	210.8
100°	228.1	231.3	232.9	234.4	237.6
102.5°	242.3	242.3	242.3	245.5	245.5
105°	269.1	265.9	258.0	262.8	261.2
107.5°	287.9	284.8	283.2	287.9	291.1
110°	308.4	305.2	303.7	308.4	311.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	317.8	316.3	316.3	319.4	322.6
115°	327.3	325.7	325.7	328.9	330.4
117.5°	332.0	332.0	335.1	335.1	336.7
120°	333.6	335.1	338.3	338.3	338.3
122.5°	338.3	336.7	341.4	339.9	341.4
125°	341.4	341.4	344.6	343.0	344.6
127.5°	344.6	343.0	346.2	346.2	346.2
130°	347.7	347.7	350.9	350.9	350.9
132.5°	350.9	349.3	352.5	354.0	357.2
135°	354.0	352.5	354.0	358.7	361.9
137.5°	357.2	355.6	355.6	360.3	365.0
140°	361.9	363.5	360.3	365.0	366.6
142.5°	383.9	383.9	379.2	383.9	390.2
145°	405.9	405.9	405.9	409.1	410.7
147.5°	417.0	418.5	420.1	420.1	421.7
150°	420.1	420.1	420.1	420.1	421.7
152.5°	415.4	413.8	404.4	412.2	413.8
155°	393.4	391.8	379.2	390.2	390.2
157.5°	374.5	372.9	360.3	371.3	372.9
160°	360.3	368.2	355.6	366.6	358.7
162.5°	325.7	341.4	333.6	336.7	324.1
165°	299.0	305.2	303.7	302.1	295.8
167.5°	281.6	287.9	284.8	286.4	276.9
170°	264.3	269.1	270.6	265.9	259.6
172.5°	234.4	237.6	242.3	234.4	234.4
175°	217.1	214.0	214.0	214.0	214.0
177.5°	225.0	225.0	226.6	221.9	221.9
180°	234.4	234.4	234.4	234.4	234.4

(END OF REPORT)