

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: P231484

Luminaire Tested: **SSLED-LD5-30-W-UNV-L850-CD2-U-CLR22**

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: P231484
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1708-240-5)
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
Description: STEELER CLEAR REFRACTOR LENS
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: 30612.0 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 1.48 / 1.49
Luminous Opening: Vertical Cylinder (Dia: 1.83' x H: 1')
CIE Type: Direct

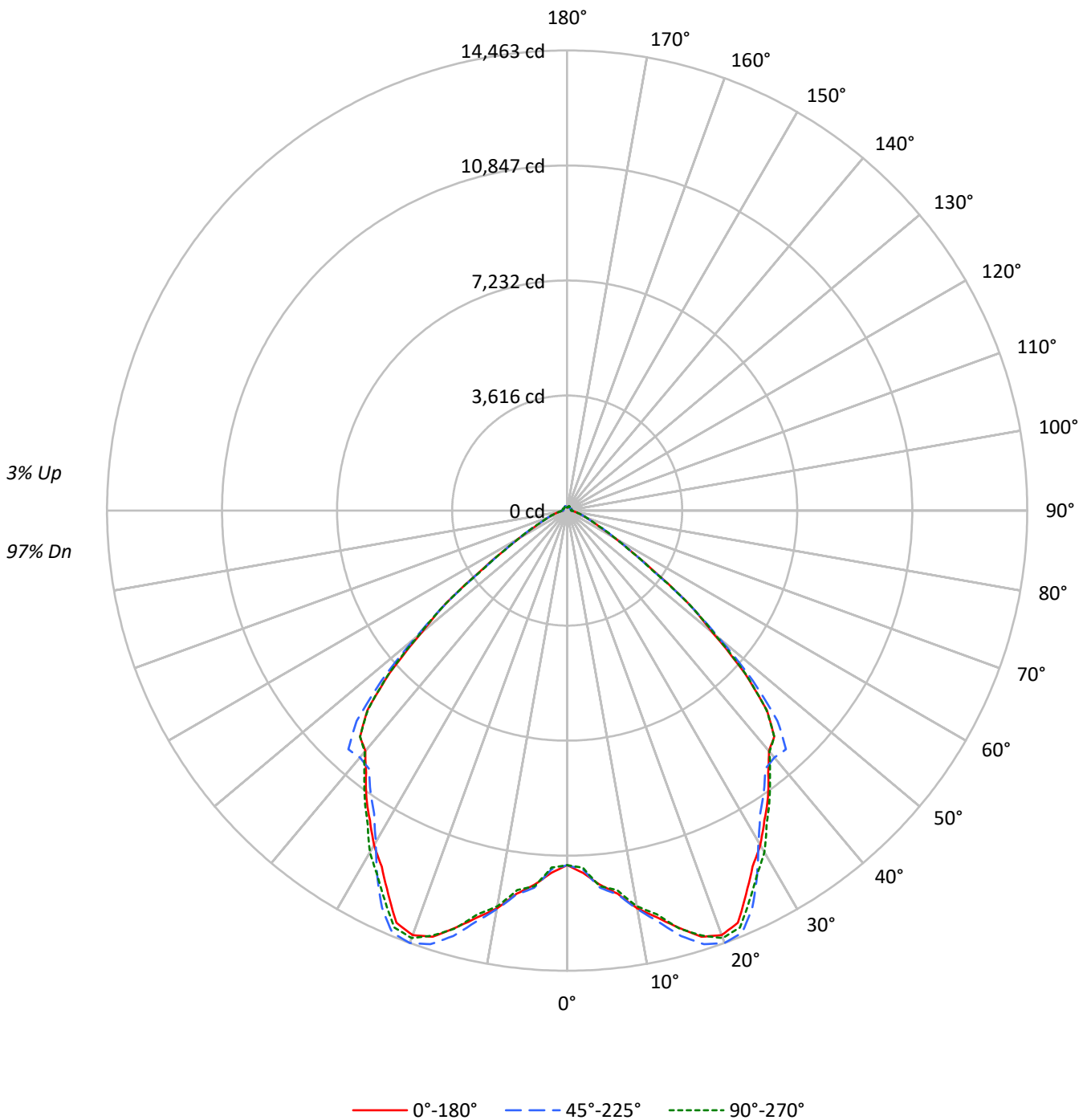
Input Watts (W): 266.35
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0		
RCR																										
0	118	118	118	118	115	115	115	115	110	110	110	104	104	104	100	100	100	97								
1	111	107	103	100	108	104	101	99	100	97	95	95	94	92	92	90	89	86								
2	103	96	91	86	100	94	89	85	90	86	82	87	83	80	83	81	78	76								
3	95	86	80	74	93	85	78	73	81	76	72	78	74	70	76	72	69	67								
4	88	78	70	65	86	76	70	64	74	68	63	71	66	62	69	65	61	59								
5	82	71	63	57	80	69	62	57	67	61	56	65	59	55	63	58	54	52								
6	76	64	56	51	74	63	56	50	61	55	50	59	54	49	58	53	49	47								
7	71	59	51	45	69	58	50	45	56	49	45	54	49	44	53	48	44	42								
8	66	54	46	41	64	53	46	41	52	45	40	50	44	40	49	43	39	38								
9	62	50	42	37	60	49	42	37	48	41	36	46	40	36	45	40	36	34								
10	58	46	38	34	57	45	38	33	44	38	33	43	37	33	42	37	33	31								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	45450	45450	45450
5°	45528	45923	45729
10°	46810	46918	46583
15°	48319	49261	48371
20°	49178	50094	49515
25°	45201	46806	46029
30°	40794	40396	41672
35°	36869	36113	37146
40°	33174	34085	33288
45°	30210	31829	30155
50°	20744	21623	21065
55°	11974	11569	11685
60°	6466	6580	6478
65°	3718	3875	3775
70°	2542	2609	2609
75°	1801	1830	1808
80°	1343	1358	1335
85°	960	968	952



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1149.8	3.8
10°-20°	3898.5	12.7
20°-30°	6253.2	20.4
30°-40°	6876.1	22.5
40°-50°	6691.2	21.9
50°-60°	3208.2	10.5
60°-70°	1049.0	3.4
70°-80°	457.2	1.5
80°-90°	211.2	0.7
90°-100°	143.8	0.5
100°-110°	146.0	0.5
110°-120°	132.1	0.4
120°-130°	105.3	0.3
130°-140°	92.8	0.3
140°-150°	85.3	0.3
150°-160°	66.3	0.2
160°-170°	36.0	0.1
170°-180°	9.8	0.0
0°-30°	11301.5	36.9
0°-40°	18177.6	59.4
0°-60°	28077.1	91.7
0°-90°	29794.5	97.3
90°-120°	421.9	1.4
90°-150°	705.3	2.3
90°-180°	817.0	2.7
0°-180°	30612.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11146	11146	11146	11146	11146	
5°	11799	11791	11901	11856	11851	###
15°	13576	13727	13841	13680	13591	3863
25°	13300	13765	13773	13922	13544	6114
35°	11008	10772	10783	10879	11091	6872
45°	8877	8765	9353	8775	8861	6541
55°	3355	3371	3242	3342	3274	3196
65°	959	977	1000	995	974	1027
75°	411	414	417	414	412	453
85°	183	183	185	185	182	172
90°	128	132	132	133	130	72
95°	122	120	122	125	127	105
105°	149	136	136	130	141	148
115°	128	136	135	135	132	131
125°	112	112	112	114	117	105
135°	120	118	115	118	122	94
145°	136	135	136	136	140	85
155°	144	144	144	144	143	66
165°	128	127	127	125	123	36
175°	101	101	99	99	101	10
180°	102	102	102	102	102	



TEST NUMBER: P231484

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11146.5	11146.5	11146.5	11146.5	11146.5
2.5°	11394.8	11336.4	11281.2	11240.6	11230.9
5°	11799.0	11790.9	11901.3	11855.8	11851.0
7.5°	12148.0	12169.1	12164.2	12105.8	12029.5
10°	12690.1	12695.0	12719.4	12686.9	12628.5
12.5°	13102.4	13289.1	13232.3	13173.9	12992.1
15°	13576.4	13727.4	13841.0	13680.3	13591.0
17.5°	14043.9	14204.6	14289.0	14248.4	13998.4
20°	14198.1	14448.1	14462.7	14501.6	14295.5
22.5°	14024.4	14310.1	14363.7	14438.3	14183.5
25°	13300.5	13764.7	13772.8	13922.1	13543.9
27.5°	12618.7	13009.9	12927.1	13204.7	12917.4
30°	12138.3	12206.4	12019.8	12370.4	12399.6
32.5°	11540.9	11372.1	11290.9	11456.5	11672.4
35°	11008.5	10771.5	10782.9	10878.7	11091.3
37.5°	10385.2	10550.8	10229.4	10683.9	10469.6
40°	9864.2	10183.9	10135.2	10261.8	9898.2
42.5°	9633.7	9602.8	10180.7	9622.3	9635.3
45°	8877.3	8765.3	9352.9	8775.0	8861.0
47.5°	7569.0	7934.2	7913.1	8042.9	7616.0
50°	5976.6	6349.9	6229.8	6505.8	6069.1
52.5°	4825.8	4665.1	4793.3	4715.4	4825.8
55°	3355.1	3371.4	3241.5	3342.2	3274.0
57.5°	2379.6	2433.2	2386.1	2382.9	2358.5
60°	1746.6	1753.1	1777.4	1772.5	1749.8
62.5°	1277.5	1290.4	1318.0	1316.4	1301.8
65°	959.3	977.2	999.9	995.0	973.9
67.5°	748.3	767.8	772.6	775.9	779.1
70°	620.1	626.6	636.3	636.3	636.3
72.5°	516.2	524.3	525.9	527.5	524.3
75°	410.7	413.9	417.2	413.9	412.3
77.5°	339.2	339.2	337.6	336.0	337.6
80°	282.4	284.1	285.7	282.4	280.8
82.5°	230.5	232.1	233.7	232.1	232.1
85°	183.4	183.4	185.0	185.0	181.8
87.5°	151.0	151.0	151.0	152.6	151.0
90°	128.2	131.5	131.5	133.1	129.9
92.5°	115.2	118.5	118.5	121.7	118.5
95°	121.7	120.1	121.7	125.0	126.6
97.5°	136.3	139.6	144.5	149.3	144.5
100°	142.8	154.2	157.4	157.4	147.7
102.5°	139.6	138.0	144.5	141.2	146.1
105°	149.3	136.3	136.3	129.9	141.2
107.5°	131.5	138.0	116.9	138.0	129.9
110°	133.1	129.9	128.2	133.1	134.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	136.3	125.0	134.7	125.0	136.3
115°	128.2	136.3	134.7	134.7	131.5
117.5°	133.1	136.3	139.6	141.2	133.1
120°	129.9	125.0	129.9	133.1	133.1
122.5°	116.9	115.2	116.9	120.1	126.6
125°	112.0	112.0	112.0	113.6	116.9
127.5°	113.6	113.6	112.0	113.6	115.2
130°	118.5	116.9	118.5	118.5	120.1
132.5°	120.1	118.5	115.2	118.5	123.4
135°	120.1	118.5	115.2	118.5	121.7
137.5°	121.7	120.1	120.1	120.1	123.4
140°	125.0	126.6	126.6	126.6	126.6
142.5°	131.5	131.5	131.5	131.5	134.7
145°	136.3	134.7	136.3	136.3	139.6
147.5°	141.2	139.6	141.2	141.2	142.8
150°	144.5	142.8	144.5	144.5	144.5
152.5°	146.1	144.5	146.1	146.1	146.1
155°	144.5	144.5	144.5	144.5	142.8
157.5°	141.2	141.2	141.2	141.2	139.6
160°	138.0	139.6	138.0	138.0	136.3
162.5°	133.1	133.1	133.1	131.5	131.5
165°	128.2	126.6	126.6	125.0	123.4
167.5°	121.7	120.1	118.5	118.5	116.9
170°	112.0	112.0	112.0	110.4	110.4
172.5°	102.3	100.6	100.6	100.6	99.0
175°	100.6	100.6	99.0	99.0	100.6
177.5°	100.6	100.6	102.3	100.6	100.6
180°	102.3	102.3	102.3	102.3	102.3

(END OF REPORT)