

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: P231441

Luminaire Tested: **SSLED-LD5-30-W-UNV-L840-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: P231441
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-L840-CD2-U-FRR22-CLCDL22
Description: STEELER WHITE 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: 29011.0 lumens
Efficiency: N/A
Efficacy: 108.9 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

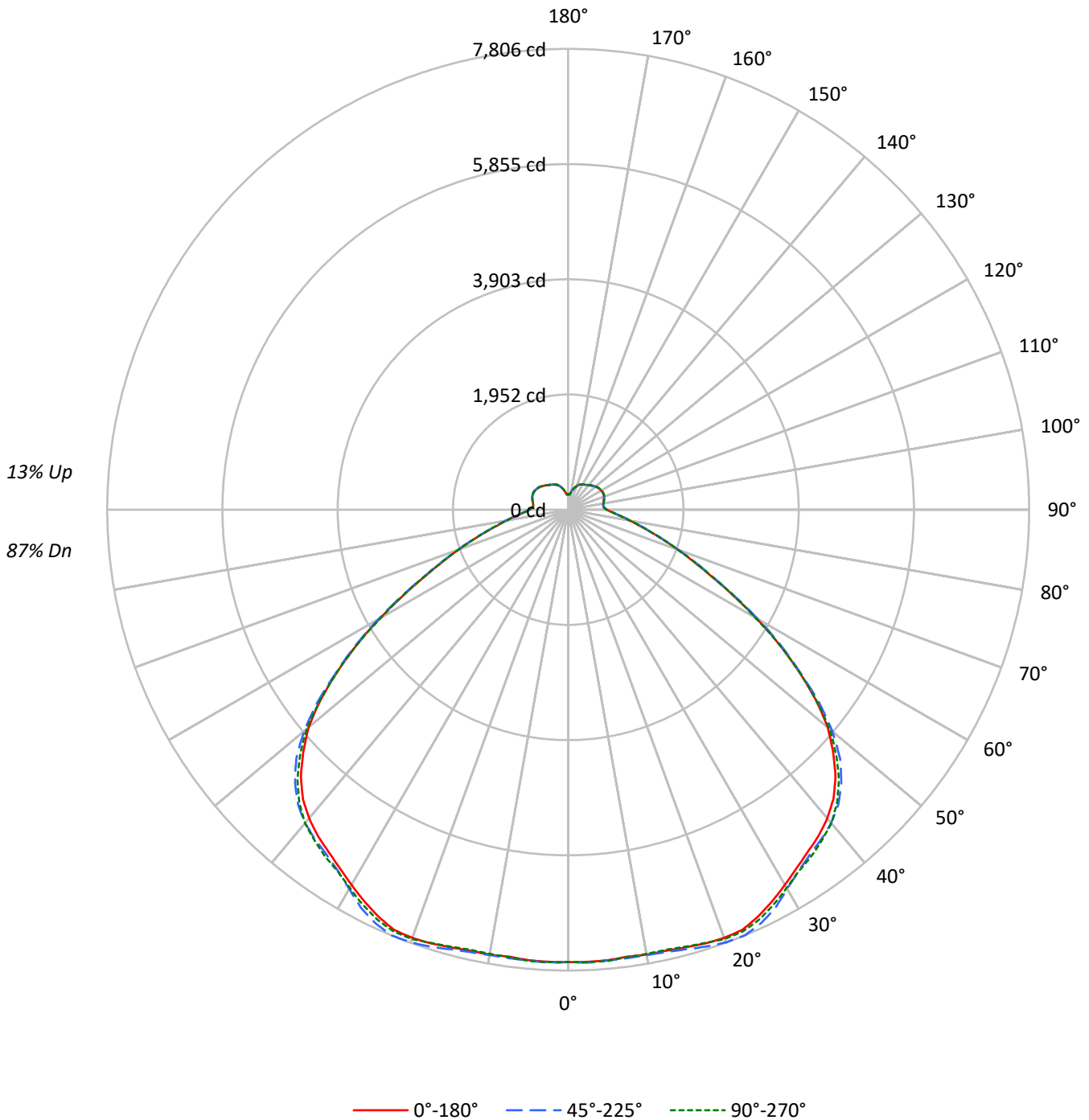
Input Watts (W): 266.35
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	37814	37814	37814
5°	35190	35219	35248
10°	33134	33162	33080
15°	31640	31782	31594
20°	30596	30920	30683
25°	29244	29715	29449
30°	27598	27894	27834
35°	26235	26457	26603
40°	25145	25534	25545
45°	23614	24131	23916
50°	21353	21733	21517
55°	18013	18108	18031
60°	14252	14392	14173
65°	10751	10871	10802
70°	8259	8292	8227
75°	6309	6392	6330
80°	4984	5028	4969
85°	4036	4100	4076



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	730.6	2.5
10°-20°	2181.4	7.5
20°-30°	3529.7	12.2
30°-40°	4486.6	15.5
40°-50°	4973.7	17.1
50°-60°	4260.9	14.7
60°-70°	2725.2	9.4
70°-80°	1554.1	5.4
80°-90°	902.0	3.1
90°-100°	666.8	2.3
100°-110°	663.2	2.3
110°-120°	648.3	2.2
120°-130°	567.6	2.0
130°-140°	446.4	1.5
140°-150°	324.9	1.1
150°-160°	215.5	0.7
160°-170°	107.7	0.4
170°-180°	26.5	0.1
0°-30°	6441.8	22.2
0°-40°	10928.3	37.7
0°-60°	20163.0	69.5
0°-90°	25344.2	87.4
90°-120°	1978.2	6.8
90°-150°	3317.1	11.4
90°-180°	3667.0	12.6
0°-180°	29011.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7664	7664	7664	7664	7664	
5°	7659	7658	7666	7658	7672	730
15°	7674	7688	7708	7682	7663	2178
25°	7604	7650	7727	7652	7658	3502
35°	7074	7143	7134	7175	7173	4441
45°	6401	6454	6541	6497	6482	4909
55°	4760	4785	4785	4775	4764	4239
65°	2681	2706	2711	2714	2694	2707
75°	1432	1438	1451	1441	1436	1546
85°	798	809	810	804	806	710
90°	653	654	658	654	653	361
95°	596	596	601	598	598	491
105°	625	626	628	628	628	661
115°	653	654	654	658	658	646
125°	631	632	634	636	637	566
135°	574	576	574	576	577	445
145°	516	516	514	514	516	325
155°	469	469	461	466	469	216
165°	376	376	374	373	374	108
175°	260	260	258	258	260	27
180°	261	261	261	261	261	



TEST NUMBER: P231441

CATALOG NUMBER: SSLED-LD5-30-W-UNV-L840-CD2-U-FRR22-CLCDL22

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7664.2	7664.2	7664.2	7664.2	7664.2
2.5°	7665.7	7678.3	7679.9	7670.5	7670.5
5°	7659.4	7657.9	7665.7	7657.9	7672.0
7.5°	7635.8	7637.4	7661.0	7646.9	7645.3
10°	7653.1	7637.4	7659.4	7640.6	7640.6
12.5°	7651.6	7648.4	7673.6	7651.6	7635.8
15°	7673.6	7687.8	7708.2	7681.5	7662.6
17.5°	7705.1	7722.4	7760.1	7709.8	7694.1
20°	7717.7	7725.5	7799.5	7725.5	7739.7
22.5°	7703.5	7714.5	7805.8	7714.5	7733.4
25°	7604.4	7650.0	7727.1	7651.6	7657.9
27.5°	7478.5	7555.6	7599.6	7563.5	7538.3
30°	7336.9	7439.2	7415.6	7458.0	7399.8
32.5°	7196.9	7296.0	7255.1	7318.0	7261.4
35°	7074.1	7143.4	7133.9	7174.8	7173.2
37.5°	6965.6	7006.5	7037.9	7055.2	7058.4
40°	6823.9	6880.6	6929.4	6918.4	6932.5
42.5°	6647.7	6709.1	6772.0	6739.0	6735.8
45°	6400.7	6454.2	6540.7	6496.7	6482.5
47.5°	6084.4	6185.1	6244.9	6197.7	6156.8
50°	5736.7	5787.1	5839.0	5812.2	5780.8
52.5°	5282.0	5285.1	5348.1	5311.9	5286.7
55°	4759.6	4784.8	4784.8	4775.3	4764.3
57.5°	4230.9	4249.8	4262.4	4248.3	4230.9
60°	3674.0	3694.4	3710.1	3703.8	3653.5
62.5°	3153.1	3173.6	3183.0	3164.2	3168.9
65°	2681.1	2706.3	2711.0	2714.2	2693.7
67.5°	2294.1	2312.9	2324.0	2314.5	2312.9
70°	1974.6	1979.4	1982.5	1988.8	1966.8
72.5°	1685.1	1686.7	1694.6	1696.2	1683.6
75°	1431.8	1438.1	1450.7	1441.3	1436.5
77.5°	1222.6	1232.0	1238.3	1241.4	1235.1
80°	1062.1	1063.6	1071.5	1065.2	1058.9
82.5°	922.0	922.0	926.7	926.7	923.6
85°	797.7	808.7	810.3	804.0	805.6
87.5°	714.3	719.1	720.6	717.5	715.9
90°	653.0	654.5	657.7	654.5	653.0
92.5°	613.6	616.8	618.4	616.8	618.4
95°	596.3	596.3	601.0	597.9	597.9
97.5°	596.3	596.3	601.0	599.5	597.9
100°	604.2	605.8	607.3	607.3	607.3
102.5°	613.6	615.2	616.8	616.8	616.8
105°	624.7	626.2	627.8	627.8	627.8
107.5°	635.7	637.2	638.8	638.8	638.8
110°	646.7	645.1	648.3	648.3	649.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	651.4	653.0	653.0	654.5	656.1
115°	653.0	654.5	654.5	657.7	657.7
117.5°	653.0	653.0	654.5	656.1	657.7
120°	646.7	648.3	649.8	651.4	653.0
122.5°	642.0	642.0	643.5	645.1	646.7
125°	630.9	632.5	634.1	635.7	637.2
127.5°	619.9	619.9	621.5	623.1	624.7
130°	607.3	607.3	608.9	610.5	612.1
132.5°	590.0	591.6	591.6	593.2	594.8
135°	574.3	575.9	574.3	575.9	577.4
137.5°	558.6	558.6	557.0	558.6	560.1
140°	541.3	542.8	541.3	542.8	542.8
142.5°	527.1	530.2	528.7	528.7	530.2
145°	516.1	516.1	514.5	514.5	516.1
147.5°	503.5	505.1	503.5	503.5	503.5
150°	490.9	492.5	489.3	490.9	490.9
152.5°	481.5	483.0	475.2	481.5	481.5
155°	468.9	468.9	461.0	465.7	468.9
157.5°	451.6	450.0	445.3	450.0	448.4
160°	429.5	431.1	426.4	428.0	426.4
162.5°	401.2	404.4	402.8	402.8	401.2
165°	376.0	376.0	374.5	372.9	374.5
167.5°	347.7	347.7	346.2	347.7	346.2
170°	313.1	316.3	314.7	316.3	313.1
172.5°	278.5	276.9	276.9	276.9	276.9
175°	259.6	259.6	258.0	258.0	259.6
177.5°	258.0	258.0	259.6	256.5	256.5
180°	261.2	261.2	261.2	261.2	261.2

(END OF REPORT)