

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: P231461

Luminaire Tested: **SSLED-LD5-30-W-UNV-L835-CD2-U-FRR22-FRCDL22**

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: P231461
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1708-240-4)
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-L835-CD2-U-FRR22-FRCDL22
Description: STEELER WHITE REFRACTOR LENS AND CIRCULAR DROP
Light Source: (240) 3500 CCT, 80 CRI LEDS
Ballast/Driver: (2) ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26746.0 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.16 / 1.37
Luminous Opening: Vertical Cylinder (Dia: 1.83' x H: 1')
CIE Type: Semi-Direct

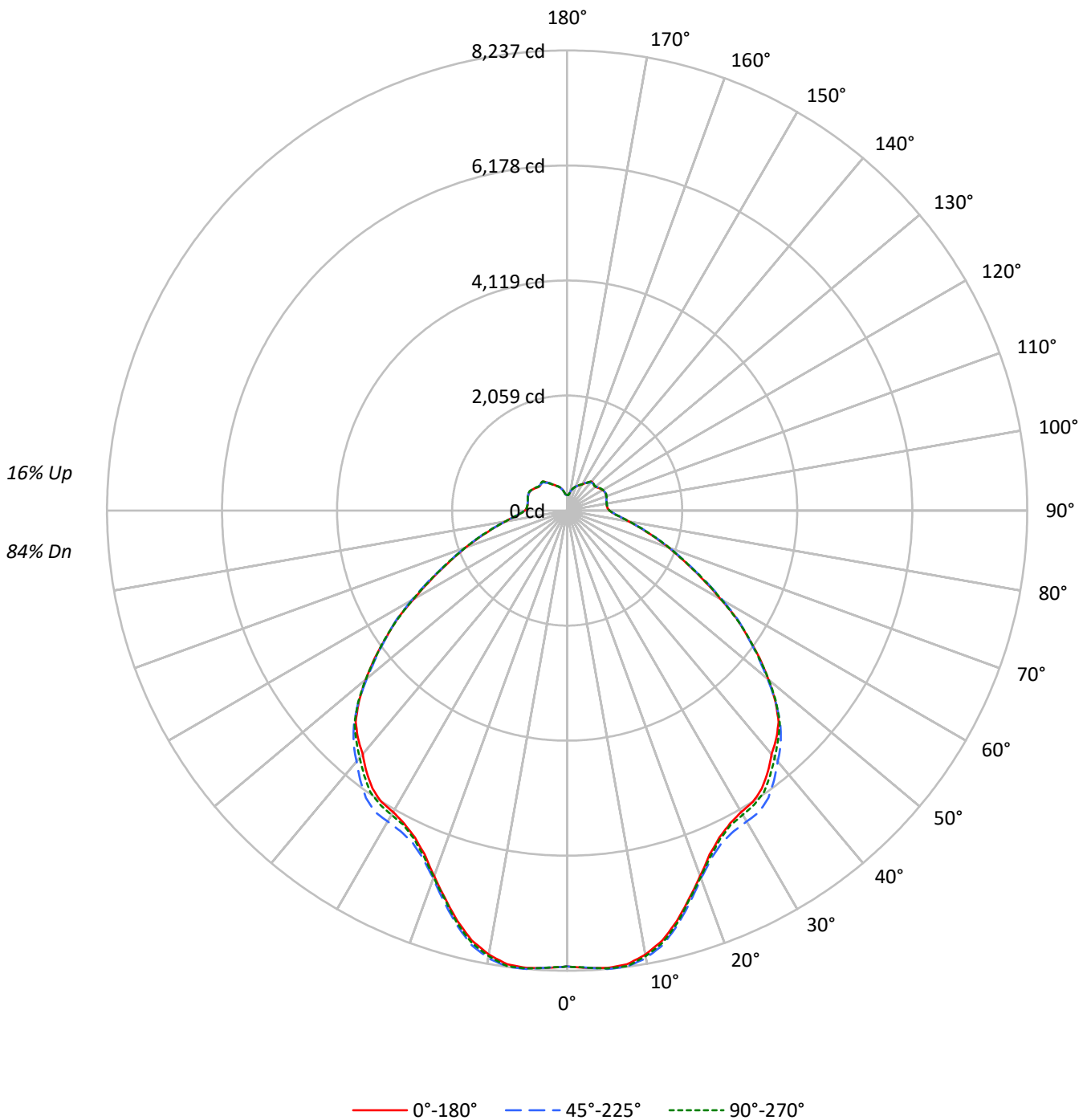
Input Watts (W): 266.35
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P231461

CATALOG NUMBER: SSLED-LD5-30-W-UNV-L835-CD2-U-FRR22-FRCDL22

Luminous Intensity Polar Plot





TEST NUMBER: P231461

CATALOG NUMBER: SSLED-LD5-30-W-UNV-L835-CD2-U-FRR22-FRCDL22

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	115	115	115	115	111	111	111	111	102	102	102	95	95	95	88	88	88	84
1	104	100	95	91	100	96	92	88	89	85	82	82	79	77	76	74	72	69
2	95	87	80	74	91	83	77	72	77	72	68	72	68	64	66	63	60	57
3	87	76	68	61	83	73	66	60	68	62	57	63	58	54	59	55	51	48
4	79	67	59	52	76	65	57	51	60	54	48	56	51	46	52	48	44	41
5	73	60	51	45	70	58	50	44	54	47	42	51	45	40	47	42	38	36
6	67	54	45	39	64	52	44	38	49	42	37	46	40	35	43	38	34	31
7	62	49	40	34	60	47	39	34	44	37	32	42	36	31	39	34	30	28
8	58	45	36	30	55	43	35	30	41	34	29	38	32	28	36	31	27	25
9	54	41	33	27	52	40	32	27	37	31	26	35	29	25	33	28	24	22
10	51	38	30	25	49	37	29	24	34	28	23	33	27	23	31	26	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	33276	33276	33276
5°	31711	31785	31745
10°	29766	30005	29875
15°	27055	27275	27175
20°	24113	24261	24185
25°	21929	22269	22034
30°	20939	21597	21137
35°	20345	21029	20581
40°	19148	19722	19430
45°	18219	18359	18319
50°	16330	16243	16356
55°	14098	14103	14161
60°	11748	11895	11813
65°	9614	9699	9648
70°	7907	7955	7961
75°	6440	6524	6524
80°	5323	5365	5372
85°	4605	4643	4597



TEST NUMBER: P231461

CATALOG NUMBER: SSLED-LD5-30-W-UNV-L835-CD2-U-FRR22-FRCDL22

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	781.9	2.9
10°-20°	2138.9	8.0
20°-30°	3041.2	11.4
30°-40°	3842.0	14.4
40°-50°	4117.2	15.4
50°-60°	3531.0	13.2
60°-70°	2498.0	9.3
70°-80°	1585.6	5.9
80°-90°	988.2	3.7
90°-100°	794.4	3.0
100°-110°	771.5	2.9
110°-120°	744.3	2.8
120°-130°	630.7	2.4
130°-140°	517.7	1.9
140°-150°	383.9	1.4
150°-160°	232.7	0.9
160°-170°	117.5	0.4
170°-180°	29.3	0.1
0°-30°	5962.0	22.3
0°-40°	9804.0	36.7
0°-60°	17452.2	65.3
0°-90°	22524.0	84.2
90°-120°	2310.2	8.6
90°-150°	3842.4	14.4
90°-180°	4222.0	15.8
0°-180°	26746.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8161	8161	8161	8161	8161	
5°	8218	8228	8237	8233	8227	780
15°	7602	7612	7664	7644	7636	2129
25°	6453	6550	6553	6592	6484	3002
35°	6075	6097	6279	6145	6145	3782
45°	5354	5366	5395	5407	5383	4085
55°	3950	3949	3952	3931	3968	3537
65°	2480	2495	2502	2497	2489	2479
75°	1468	1484	1487	1487	1487	1575
85°	880	878	887	880	878	771
90°	758	759	762	761	758	418
95°	718	719	722	722	721	587
105°	725	725	727	728	730	769
115°	752	753	755	758	759	742
125°	700	702	705	705	708	627
135°	668	668	668	671	674	517
145°	608	610	609	606	603	385
155°	497	499	499	496	500	232
165°	413	412	410	412	413	118
175°	287	285	284	285	285	29
180°	280	280	280	280	280	



TEST NUMBER: P231461

CATALOG NUMBER: SSLED-LD5-30-W-UNV-L835-CD2-U-FRR22-FRCDL22

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8160.8	8160.8	8160.8	8160.8	8160.8
2.5°	8194.6	8194.6	8188.7	8193.1	8188.7
5°	8218.1	8228.4	8237.3	8232.8	8227.0
7.5°	8193.1	8203.4	8232.8	8225.5	8225.5
10°	8069.5	8088.7	8134.3	8121.0	8099.0
12.5°	7882.7	7915.1	7956.3	7931.3	7921.0
15°	7601.7	7612.0	7663.5	7644.4	7635.5
17.5°	7272.2	7272.2	7336.9	7333.9	7289.8
20°	6961.7	6983.8	7004.4	7025.0	6982.3
22.5°	6663.1	6739.6	6738.1	6776.4	6698.4
25°	6452.7	6549.8	6552.7	6592.5	6483.6
27.5°	6314.4	6423.3	6464.5	6461.5	6343.8
30°	6230.5	6293.8	6426.2	6345.3	6289.4
32.5°	6186.4	6189.3	6398.3	6239.4	6239.4
35°	6074.6	6096.7	6279.1	6145.2	6145.2
37.5°	5899.5	5984.8	6083.4	6030.5	5968.7
40°	5693.6	5834.8	5864.2	5855.4	5777.4
42.5°	5540.5	5620.0	5664.1	5653.8	5587.6
45°	5353.7	5365.5	5394.9	5406.7	5383.1
47.5°	5056.5	5052.1	5065.3	5072.7	5075.6
50°	4704.9	4671.1	4679.9	4678.4	4712.3
52.5°	4344.5	4301.8	4301.8	4294.4	4323.9
55°	3950.2	3948.7	3951.6	3931.1	3967.8
57.5°	3594.1	3605.9	3614.7	3589.7	3580.9
60°	3173.4	3213.1	3213.1	3202.8	3191.0
62.5°	2808.5	2837.9	2854.1	2830.6	2829.1
65°	2480.4	2495.2	2502.5	2496.6	2489.3
67.5°	2180.3	2198.0	2206.8	2193.6	2195.0
70°	1928.7	1934.6	1940.5	1953.8	1942.0
72.5°	1687.5	1691.9	1703.7	1700.7	1700.7
75°	1468.3	1484.4	1487.4	1487.4	1487.4
77.5°	1285.8	1294.7	1293.2	1290.2	1287.3
80°	1119.6	1128.4	1128.4	1128.4	1129.9
82.5°	990.1	988.6	991.6	994.5	994.5
85°	879.8	878.3	887.1	879.8	878.3
87.5°	803.3	807.7	810.6	809.2	806.2
90°	757.7	759.1	762.1	760.6	757.7
92.5°	729.7	732.7	735.6	735.6	734.1
95°	717.9	719.4	722.4	722.4	720.9
97.5°	715.0	716.5	719.4	719.4	717.9
100°	716.5	717.9	719.4	719.4	720.9
102.5°	717.9	719.4	720.9	722.4	722.4
105°	725.3	725.3	726.8	728.2	729.7
107.5°	734.1	735.6	737.1	738.5	738.5
110°	744.4	745.9	745.9	748.8	748.8



TEST NUMBER: P231461

CATALOG NUMBER: SSLED-LD5-30-W-UNV-L835-CD2-U-FRR22-FRCDL22

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	751.8	753.3	753.3	756.2	757.7
115°	751.8	753.3	754.7	757.7	759.1
117.5°	745.9	745.9	747.4	750.3	753.3
120°	732.7	732.7	735.6	737.1	740.0
122.5°	716.5	717.9	720.9	722.4	723.8
125°	700.3	701.8	704.7	704.7	707.6
127.5°	678.2	682.6	685.6	685.6	687.1
130°	660.6	665.0	667.9	669.4	667.9
132.5°	656.2	660.6	665.0	662.0	659.1
135°	667.9	667.9	667.9	670.9	673.8
137.5°	679.7	676.8	666.5	678.2	682.6
140°	679.7	669.4	662.0	667.9	679.7
142.5°	645.9	642.9	628.2	640.0	644.4
145°	607.6	610.5	609.1	606.1	603.2
147.5°	575.2	581.1	585.5	573.8	573.8
150°	539.9	553.2	553.2	548.8	544.3
152.5°	520.8	523.7	523.7	520.8	522.3
155°	497.3	498.7	498.7	495.8	500.2
157.5°	473.7	476.7	476.7	476.7	475.2
160°	457.5	459.0	457.5	457.5	456.1
162.5°	436.9	435.5	435.5	435.5	436.9
165°	413.4	411.9	410.5	411.9	413.4
167.5°	385.5	385.5	384.0	384.0	384.0
170°	351.6	353.1	351.6	351.6	350.1
172.5°	307.5	306.0	307.5	307.5	309.0
175°	286.9	285.4	283.9	285.4	285.4
177.5°	279.5	281.0	281.0	279.5	278.1
180°	279.5	279.5	279.5	279.5	279.5

(END OF REPORT)