

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: P231467

Luminaire Tested: **SSLED-LD5-9-W-UNV-L835-CD1-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: P231467
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-LD5-9-W-UNV-L835-CD1-U-CLR22
Description: STEELER CLEAR REFRACTOR LENS
Light Source: (240) 3500 CCT, 80 CRI LEDS
Ballast/Driver: (1) ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8426.0 lumens
Efficiency: N/A
Efficacy: 131.5 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

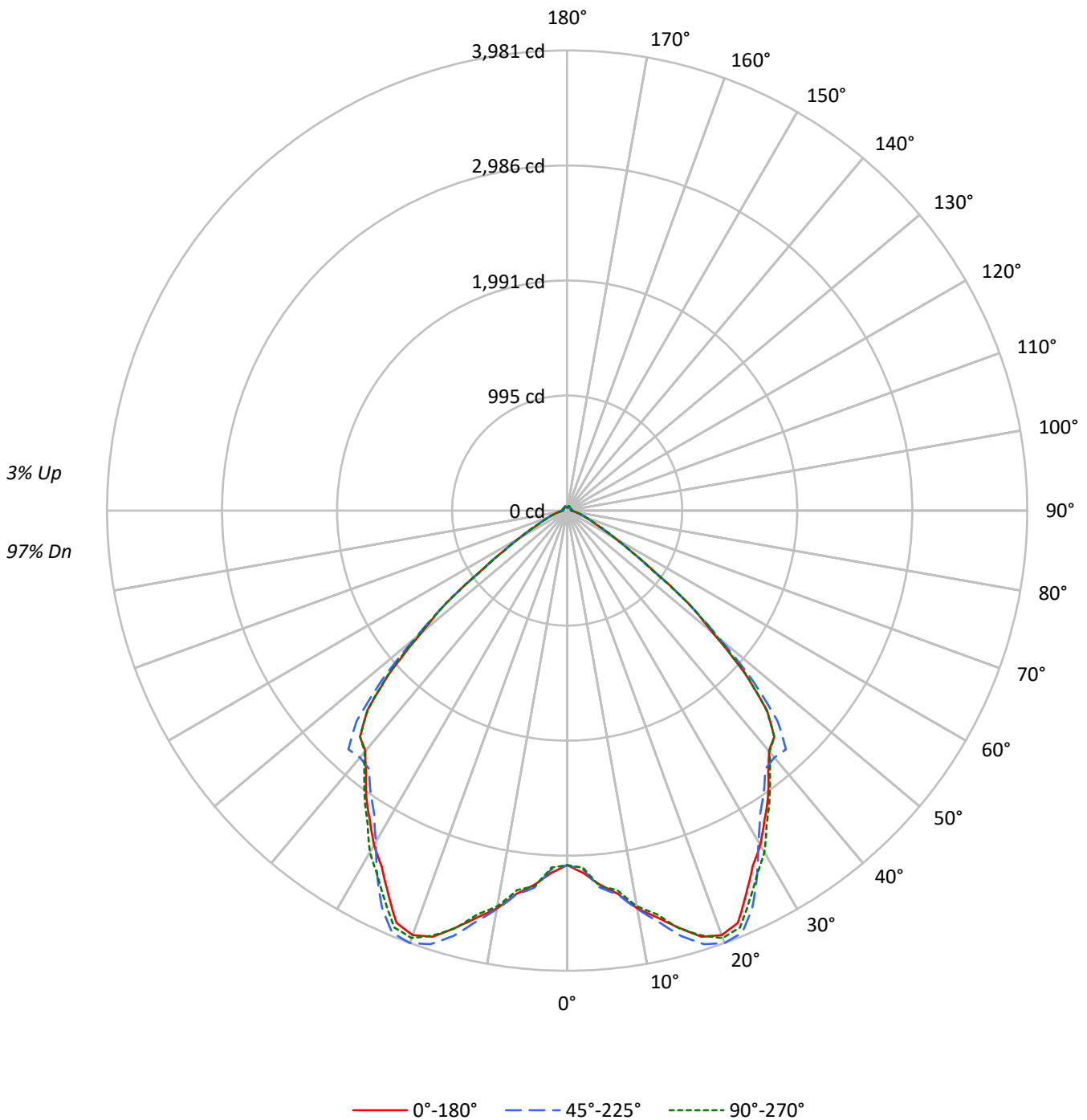
Input Watts (W): 64.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P231467

CATALOG NUMBER: SSLED-LD5-9-W-UNV-L835-CD1-U-CLR22

Luminous Intensity Polar Plot





TEST NUMBER: P231467

CATALOG NUMBER: SSLED-LD5-9-W-UNV-L835-CD1-U-CLR22

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	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°	12510	12510	12510
5°	12532	12640	12587
10°	12885	12914	12822
15°	13300	13559	13314
20°	13536	13789	13629
25°	12442	12884	12670
30°	11229	11119	11470
35°	10148	9940	10225
40°	9131	9382	9163
45°	8315	8761	8300
50°	5710	5952	5798
55°	3296	3184	3216
60°	1780	1811	1783
65°	1024	1067	1039
70°	700	718	718
75°	496	504	498
80°	369	374	368
85°	264	266	262



TEST NUMBER: P231467

CATALOG NUMBER: SSLED-LD5-9-W-UNV-L835-CD1-U-CLR22

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.5	3.8
10°-20°	1073.1	12.7
20°-30°	1721.2	20.4
30°-40°	1892.7	22.5
40°-50°	1841.8	21.9
50°-60°	883.1	10.5
60°-70°	288.7	3.4
70°-80°	125.8	1.5
80°-90°	58.1	0.7
90°-100°	39.6	0.5
100°-110°	40.2	0.5
110°-120°	36.3	0.4
120°-130°	29.0	0.3
130°-140°	25.6	0.3
140°-150°	23.5	0.3
150°-160°	18.3	0.2
160°-170°	9.9	0.1
170°-180°	2.7	0.0
0°-30°	3110.8	36.9
0°-40°	5003.4	59.4
0°-60°	7728.3	91.7
0°-90°	8201.0	97.3
90°-120°	116.1	1.4
90°-150°	194.1	2.3
90°-180°	225.0	2.7
0°-180°	8426.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3068	3068	3068	3068	3068	
5°	3248	3246	3276	3263	3262	317
15°	3737	3778	3810	3766	3741	1063
25°	3661	3789	3791	3832	3728	1683
35°	3030	2965	2968	2994	3053	1892
45°	2444	2413	2574	2415	2439	1800
55°	924	928	892	920	901	880
65°	264	269	275	274	268	283
75°	113	114	115	114	114	125
85°	50	50	51	51	50	47
90°	35	36	36	37	36	20
95°	34	33	34	34	35	29
105°	41	38	38	36	39	41
115°	35	38	37	37	36	36
125°	31	31	31	31	32	29
135°	33	33	32	33	34	26
145°	38	37	38	38	38	23
155°	40	40	40	40	39	18
165°	35	35	35	34	34	10
175°	28	28	27	27	28	3
180°	28	28	28	28	28	



TEST NUMBER: P231467

CATALOG NUMBER: SSLED-LD5-9-W-UNV-L835-CD1-U-CLR22

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3068.1	3068.1	3068.1	3068.1	3068.1
2.5°	3136.4	3120.4	3105.2	3094.0	3091.3
5°	3247.7	3245.5	3275.8	3263.3	3262.0
7.5°	3343.8	3349.6	3348.2	3332.1	3311.1
10°	3493.0	3494.3	3501.0	3492.1	3476.0
12.5°	3606.5	3657.8	3642.2	3626.1	3576.1
15°	3736.9	3778.5	3809.8	3765.5	3740.9
17.5°	3865.6	3909.8	3933.1	3921.9	3853.1
20°	3908.0	3976.9	3980.9	3991.6	3934.9
22.5°	3860.2	3938.9	3953.6	3974.2	3904.0
25°	3661.0	3788.8	3791.0	3832.1	3728.0
27.5°	3473.3	3581.0	3558.2	3634.6	3555.5
30°	3341.1	3359.8	3308.5	3405.0	3413.0
32.5°	3176.7	3130.2	3107.9	3153.4	3212.8
35°	3030.1	2964.9	2968.0	2994.4	3052.9
37.5°	2858.5	2904.1	2815.7	2940.8	2881.8
40°	2715.1	2803.1	2789.7	2824.6	2724.5
42.5°	2651.7	2643.2	2802.2	2648.6	2652.1
45°	2443.5	2412.7	2574.4	2415.3	2439.0
47.5°	2083.4	2183.9	2178.1	2213.8	2096.3
50°	1645.1	1747.8	1714.8	1790.7	1670.5
52.5°	1328.3	1284.1	1319.4	1297.9	1328.3
55°	923.5	928.0	892.2	919.9	901.2
57.5°	655.0	669.7	656.8	655.9	649.2
60°	480.7	482.5	489.2	487.9	481.6
62.5°	351.6	355.2	362.8	362.3	358.3
65°	264.1	269.0	275.2	273.9	268.1
67.5°	206.0	211.3	212.7	213.6	214.5
70°	170.7	172.5	175.1	175.1	175.1
72.5°	142.1	144.3	144.8	145.2	144.3
75°	113.0	113.9	114.8	113.9	113.5
77.5°	93.4	93.4	92.9	92.5	92.9
80°	77.7	78.2	78.6	77.7	77.3
82.5°	63.4	63.9	64.3	63.9	63.9
85°	50.5	50.5	50.9	50.9	50.0
87.5°	41.6	41.6	41.6	42.0	41.6
90°	35.3	36.2	36.2	36.6	35.7
92.5°	31.7	32.6	32.6	33.5	32.6
95°	33.5	33.1	33.5	34.4	34.8
97.5°	37.5	38.4	39.8	41.1	39.8
100°	39.3	42.4	43.3	43.3	40.7
102.5°	38.4	38.0	39.8	38.9	40.2
105°	41.1	37.5	37.5	35.7	38.9
107.5°	36.2	38.0	32.2	38.0	35.7
110°	36.6	35.7	35.3	36.6	37.1



TEST NUMBER: P231467

CATALOG NUMBER: SSLED-LD5-9-W-UNV-L835-CD1-U-CLR22

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	37.5	34.4	37.1	34.4	37.5
115°	35.3	37.5	37.1	37.1	36.2
117.5°	36.6	37.5	38.4	38.9	36.6
120°	35.7	34.4	35.7	36.6	36.6
122.5°	32.2	31.7	32.2	33.1	34.8
125°	30.8	30.8	30.8	31.3	32.2
127.5°	31.3	31.3	30.8	31.3	31.7
130°	32.6	32.2	32.6	32.6	33.1
132.5°	33.1	32.6	31.7	32.6	34.0
135°	33.1	32.6	31.7	32.6	33.5
137.5°	33.5	33.1	33.1	33.1	34.0
140°	34.4	34.8	34.8	34.8	34.8
142.5°	36.2	36.2	36.2	36.2	37.1
145°	37.5	37.1	37.5	37.5	38.4
147.5°	38.9	38.4	38.9	38.9	39.3
150°	39.8	39.3	39.8	39.8	39.8
152.5°	40.2	39.8	40.2	40.2	40.2
155°	39.8	39.8	39.8	39.8	39.3
157.5°	38.9	38.9	38.9	38.9	38.4
160°	38.0	38.4	38.0	38.0	37.5
162.5°	36.6	36.6	36.6	36.2	36.2
165°	35.3	34.8	34.8	34.4	34.0
167.5°	33.5	33.1	32.6	32.6	32.2
170°	30.8	30.8	30.8	30.4	30.4
172.5°	28.1	27.7	27.7	27.7	27.3
175°	27.7	27.7	27.3	27.3	27.7
177.5°	27.7	27.7	28.1	27.7	27.7
180°	28.1	28.1	28.1	28.1	28.1

(END OF REPORT)