

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: P231518

Luminaire Tested: **SSLED-LD5-18-W-UNV-L835-CD1-U-CLR22-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: P231518
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1708-240-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: SSLED-LD5-18-W-UNV-L835-CD1-U-CLR22-FRCDL22
Description: STEELER CLEAR REFRACTOR LENS AND CIRCULAR DROP
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: 15331.0 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.32 / 1.45
Luminous Opening: Vertical Cylinder (Dia: 1.83' x H: 1')
CIE Type: Semi-Direct

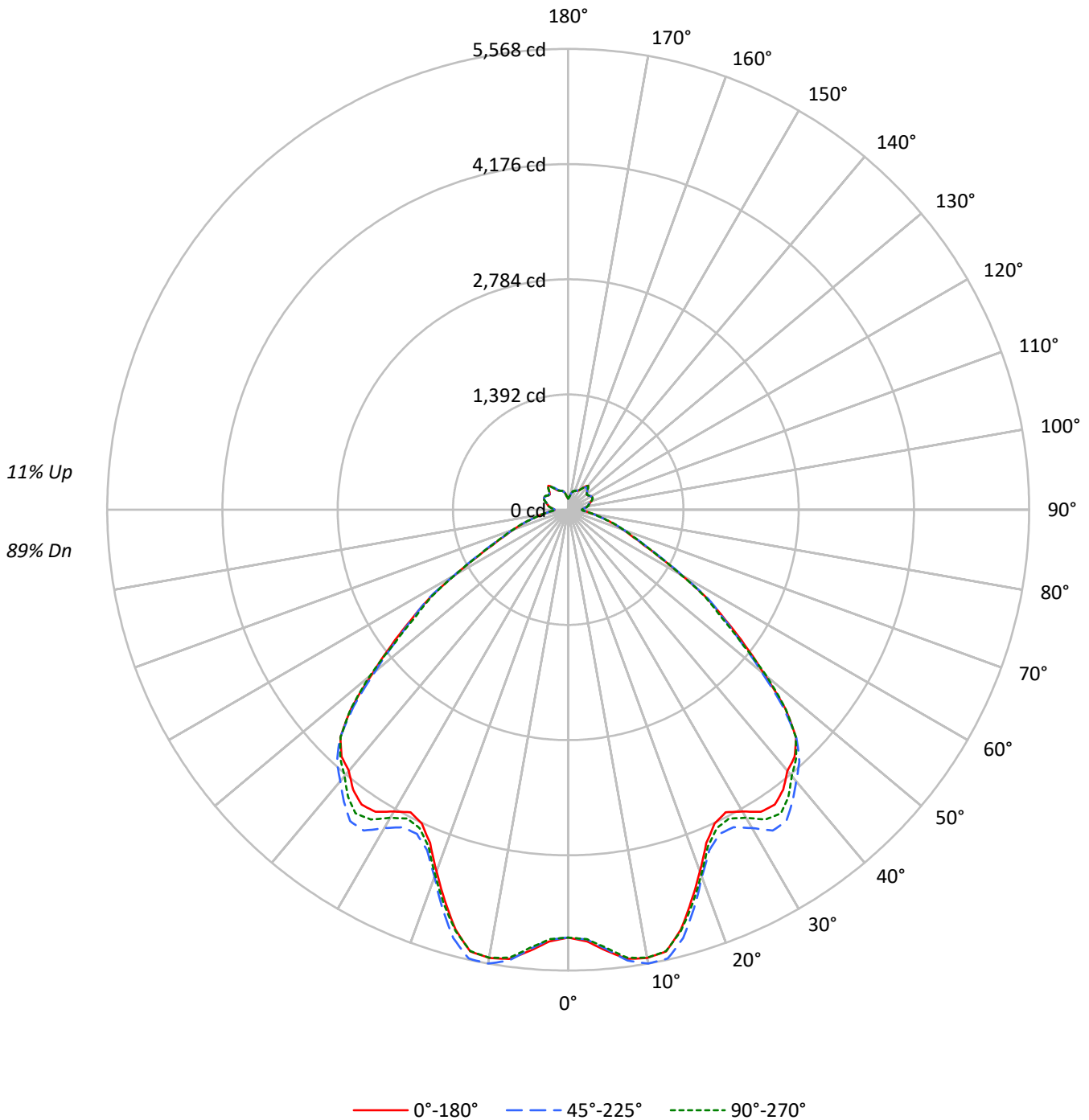
Input Watts (W): 133.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	116	116	116	116	112	112	112	112	105	105	105	98	98	98	92	92	92	89
1	107	103	99	95	103	99	96	93	93	90	88	87	85	83	82	80	79	76
2	98	91	85	79	95	88	82	78	83	78	74	78	74	71	73	70	68	65
3	90	80	73	67	87	78	71	66	73	68	63	69	65	61	65	62	58	56
4	83	72	63	57	80	70	62	56	66	59	54	62	57	52	59	54	51	48
5	76	64	56	50	73	62	55	49	59	52	47	56	50	46	53	48	44	42
6	70	58	49	43	68	56	48	43	53	47	42	51	45	40	48	43	39	37
7	65	53	44	38	63	51	43	38	49	42	37	46	40	36	44	39	35	33
8	61	48	40	34	59	47	39	34	45	38	33	42	36	32	40	35	31	29
9	57	44	36	31	55	43	35	30	41	34	30	39	33	29	37	32	28	26
10	53	40	33	28	51	40	32	27	38	31	27	36	30	26	35	29	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21076	21076	21076
5°	20651	20567	20507
10°	20282	20538	20276
15°	18699	19072	18736
20°	16109	16343	16271
25°	14219	14688	14431
30°	14149	14925	14443
35°	14571	15384	14998
40°	13858	14407	14126
45°	13246	13270	13228
50°	10739	10589	10851
55°	8259	8166	8015
60°	5869	5907	5820
65°	3894	4002	3941
70°	2885	2917	2927
75°	2097	2101	2101
80°	1498	1477	1489
85°	1045	1049	1049



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	516.3	3.4
10°-20°	1470.3	9.6
20°-30°	2026.2	13.2
30°-40°	2756.1	18.0
40°-50°	2937.9	19.2
50°-60°	2072.3	13.5
60°-70°	1057.8	6.9
70°-80°	518.1	3.4
80°-90°	234.9	1.5
90°-100°	216.9	1.4
100°-110°	278.7	1.8
110°-120°	315.2	2.1
120°-130°	271.4	1.8
130°-140°	252.5	1.6
140°-150°	205.8	1.3
150°-160°	119.8	0.8
160°-170°	64.7	0.4
170°-180°	16.1	0.1
0°-30°	4012.8	26.2
0°-40°	6768.9	44.2
0°-60°	11779.1	76.8
0°-90°	13589.9	88.6
90°-120°	810.8	5.3
90°-150°	1540.5	10.0
90°-180°	1741.0	11.4
0°-180°	15331.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5169	5169	5169	5169	5169	
5°	5352	5341	5330	5313	5315	516
15°	5254	5300	5359	5302	5264	1457
25°	4184	4330	4322	4374	4246	1972
35°	4351	4360	4594	4425	4478	2686
45°	3892	3878	3899	3914	3887	2914
55°	2314	2336	2288	2297	2246	2079
65°	1005	1016	1032	1022	1017	1043
75°	478	476	479	476	479	517
85°	200	200	200	200	200	189
90°	165	166	165	167	167	93
95°	197	196	195	198	199	169
105°	265	262	259	259	261	280
115°	324	323	322	323	326	315
125°	298	298	299	299	301	271
135°	325	324	325	331	332	253
145°	331	326	332	326	326	207
155°	252	253	256	253	255	118
165°	230	228	228	226	230	65
175°	156	155	154	155	155	16
180°	134	134	134	134	134	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5168.8	5168.8	5168.8	5168.8	5168.8
2.5°	5220.9	5212.2	5198.3	5194.8	5192.2
5°	5351.9	5340.6	5330.2	5312.8	5314.6
7.5°	5475.1	5482.0	5494.2	5473.4	5459.5
10°	5498.5	5524.5	5567.9	5532.4	5496.8
12.5°	5467.3	5508.9	5554.9	5502.9	5461.2
15°	5253.8	5299.8	5358.8	5301.6	5264.2
17.5°	4951.9	4990.9	5052.5	4988.3	4993.5
20°	4650.8	4693.3	4718.5	4732.3	4697.6
22.5°	4358.4	4470.3	4452.1	4505.9	4404.4
25°	4184.0	4329.7	4321.9	4374.0	4246.4
27.5°	4120.6	4290.7	4323.7	4326.3	4205.7
30°	4210.0	4277.7	4440.8	4326.3	4297.6
32.5°	4328.9	4304.6	4597.0	4374.9	4438.2
35°	4350.6	4360.1	4593.5	4425.2	4478.1
37.5°	4265.5	4371.4	4448.6	4439.1	4369.7
40°	4120.6	4290.7	4283.8	4333.2	4200.5
42.5°	4049.5	4132.8	4132.8	4168.4	4075.5
45°	3892.4	3877.7	3899.4	3914.1	3887.2
47.5°	3555.8	3528.0	3514.1	3565.3	3562.7
50°	3094.2	3075.9	3050.8	3111.5	3126.3
52.5°	2691.6	2653.4	2630.0	2647.3	2630.8
55°	2314.1	2335.8	2288.1	2296.8	2245.6
57.5°	1980.1	2028.6	2007.0	2000.0	1961.8
60°	1585.3	1619.1	1595.7	1606.1	1572.2
62.5°	1246.9	1270.3	1280.7	1276.4	1259.0
65°	1004.8	1016.1	1032.5	1022.1	1016.9
67.5°	829.5	839.9	844.3	841.7	845.1
70°	703.7	706.3	711.5	703.7	714.1
72.5°	589.2	594.4	594.4	595.2	600.4
75°	478.1	476.4	479.0	475.5	479.0
77.5°	384.4	384.4	382.6	380.9	386.1
80°	315.0	311.5	310.6	309.8	313.2
82.5°	250.8	251.6	251.6	250.8	249.9
85°	199.6	200.4	200.4	199.6	200.4
87.5°	171.8	171.8	172.7	172.7	171.8
90°	164.9	165.7	164.9	166.6	166.6
92.5°	176.1	176.1	177.0	178.7	177.9
95°	197.0	196.1	195.2	197.8	198.7
97.5°	216.9	216.1	217.8	219.5	221.3
100°	239.5	239.5	241.2	242.1	243.8
102.5°	249.0	249.0	248.2	250.8	252.5
105°	264.6	262.0	258.6	259.4	261.2
107.5°	276.8	275.9	275.1	276.8	277.7
110°	295.0	294.1	294.1	294.1	295.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	313.2	313.2	312.4	313.2	315.0
115°	323.6	322.8	321.9	322.8	326.2
117.5°	326.2	326.2	324.5	327.1	329.7
120°	321.9	321.0	321.0	322.8	325.4
122.5°	310.6	309.8	309.8	311.5	314.1
125°	298.5	297.6	299.4	299.4	301.1
127.5°	289.8	290.7	292.4	290.7	291.5
130°	291.5	292.4	295.9	293.3	293.3
132.5°	301.1	302.0	308.0	306.3	306.3
135°	325.4	324.5	325.4	330.6	331.5
137.5°	353.1	346.2	336.7	354.0	358.4
140°	376.6	357.5	354.0	361.8	374.8
142.5°	359.2	348.8	340.1	350.5	358.4
145°	330.6	326.2	331.5	326.2	326.2
147.5°	297.6	303.7	315.0	299.4	298.5
150°	272.5	284.6	288.9	280.3	274.2
152.5°	261.2	266.4	269.0	264.6	264.6
155°	252.5	253.4	256.0	253.4	255.1
157.5°	246.4	249.0	249.0	249.0	248.2
160°	241.2	244.7	243.8	243.8	242.1
162.5°	237.7	239.5	238.6	238.6	238.6
165°	229.9	228.2	228.2	226.5	229.9
167.5°	216.9	214.3	214.3	213.5	216.1
170°	200.4	200.4	199.6	199.6	197.8
172.5°	173.5	172.7	171.8	171.8	171.8
175°	156.2	155.3	153.6	155.3	155.3
177.5°	143.2	143.2	144.0	142.3	142.3
180°	134.5	134.5	134.5	134.5	134.5

(END OF REPORT)