

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: P231494

Luminaire Tested: **SSLED-LD5-15-W-UNV-L835-CD1-U-CLR22-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: P231494
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1708-240-6)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: SSLED-LD5-15-W-UNV-L835-CD1-U-CLR22-CLCDL22
Description: STEELER CLEAR REFRACTOR LENS AND CONICAL 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: 13384.0 lumens
Efficiency: N/A
Efficacy: 120.9 lumens/watt
Spacing Criteria (0/90/45): 1.63 / 1.67 / 1.65
Luminous Opening: Vertical Cylinder (Dia: 1.67' x H: 1.17')
CIE Type: Direct

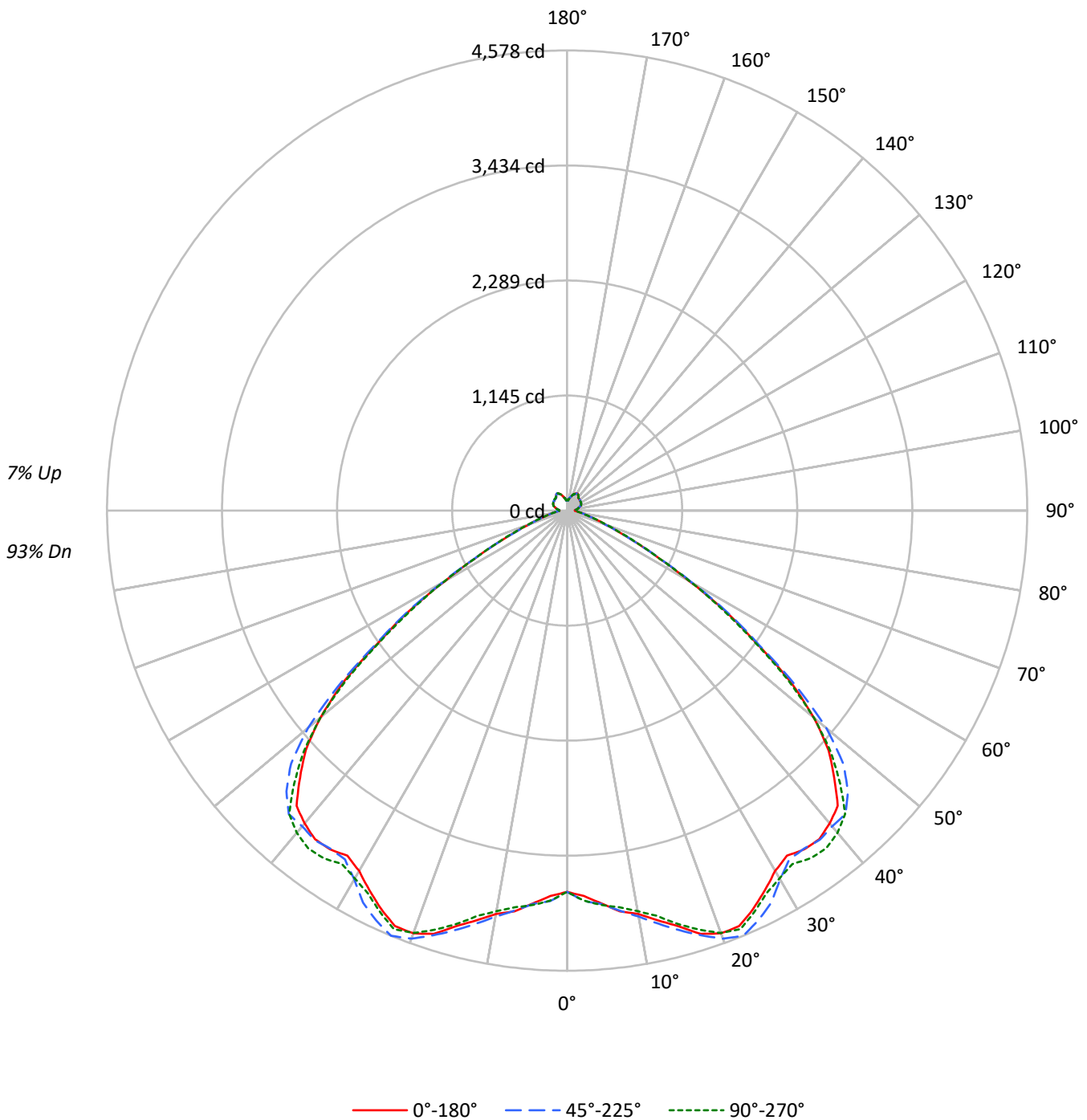
Input Watts (W): 110.74
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93
1	109	105	101	98	105	102	98	95	96	94	91	91	89	87	87	85	84	81
2	100	93	87	82	97	90	85	80	86	81	77	82	78	75	78	75	72	70
3	92	82	75	69	89	80	73	68	76	71	66	73	68	64	69	65	62	60
4	84	73	65	59	81	71	64	58	68	62	57	65	60	55	62	58	54	52
5	78	66	57	51	75	64	56	50	61	54	49	59	53	48	56	51	47	45
6	72	59	51	44	69	58	50	44	55	48	43	53	47	42	51	46	41	39
7	66	53	45	39	64	52	44	39	50	43	38	48	42	37	46	41	37	35
8	62	49	40	35	60	48	40	34	46	39	34	44	38	33	42	37	33	31
9	57	44	36	31	56	44	36	31	42	35	30	40	34	30	39	33	29	28
10	54	41	33	28	52	40	33	28	39	32	27	37	31	27	36	30	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18711	18711	18711
5°	18021	18052	18099
10°	17638	17756	17519
15°	17650	17823	17555
20°	17743	17966	17728
25°	16825	17302	16945
30°	15568	15929	15893
35°	15256	15229	15659
40°	14971	15109	15420
45°	13866	14572	14169
50°	11920	12527	11925
55°	8698	8821	8592
60°	5446	5584	5492
65°	3068	3065	3127
70°	1705	1674	1782
75°	1019	1028	1045
80°	714	707	710
85°	490	493	490



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	379.5	2.8
10°-20°	1219.7	9.1
20°-30°	2030.3	15.2
30°-40°	2611.7	19.5
40°-50°	2950.9	22.0
50°-60°	2095.7	15.7
60°-70°	808.3	6.0
70°-80°	265.8	2.0
80°-90°	113.1	0.8
90°-100°	96.9	0.7
100°-110°	131.8	1.0
110°-120°	151.5	1.1
120°-130°	144.3	1.1
130°-140°	129.2	1.0
140°-150°	117.7	0.9
150°-160°	85.2	0.6
160°-170°	41.8	0.3
170°-180°	10.6	0.1
0°-30°	3629.5	27.1
0°-40°	6241.2	46.6
0°-60°	11287.8	84.3
0°-90°	12475.1	93.2
90°-120°	380.1	2.8
90°-150°	771.4	5.8
90°-180°	909.0	6.8
0°-180°	13384.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3792	3792	3792	3792	3792	
5°	3922	3920	3929	3911	3939	380
15°	4281	4300	4323	4286	4258	1221
25°	4375	4353	4499	4386	4406	2010
35°	4114	4116	4106	4185	4222	2577
45°	3758	3817	3950	3876	3840	2876
55°	2298	2357	2331	2327	2270	2067
65°	765	753	764	765	780	802
75°	231	236	233	235	237	265
85°	97	98	98	98	97	91
90°	76	77	77	78	77	43
95°	84	84	85	86	86	74
105°	126	125	121	123	123	132
115°	154	153	153	154	155	151
125°	160	160	162	161	162	144
135°	166	165	166	168	170	129
145°	190	190	190	192	193	117
155°	185	184	178	183	183	86
165°	140	143	142	142	139	41
175°	102	100	100	100	100	11
180°	110	110	110	110	110	



TEST NUMBER: P231494

CATALOG NUMBER: SSLED-LD5-15-W-UNV-L835-CD1-U-CLR22-CLCDL22

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3792.5	3792.5	3792.5	3792.5	3792.5
2.5°	3838.2	3882.6	3888.5	3856.0	3884.8
5°	3922.4	3920.2	3929.1	3911.4	3939.4
7.5°	4020.7	4007.4	4014.0	3991.9	3980.0
10°	4073.8	4070.9	4101.2	4069.4	4046.5
12.5°	4175.8	4169.9	4211.2	4163.9	4130.0
15°	4280.6	4299.8	4322.7	4286.5	4257.7
17.5°	4415.8	4373.0	4429.8	4367.8	4371.5
20°	4475.6	4415.8	4531.7	4424.7	4471.9
22.5°	4474.9	4440.9	4578.3	4413.6	4506.6
25°	4375.2	4353.0	4499.2	4385.5	4406.2
27.5°	4259.2	4301.3	4396.6	4339.7	4292.5
30°	4138.8	4270.3	4234.8	4330.9	4225.2
32.5°	4070.9	4197.2	4114.5	4267.3	4169.1
35°	4113.7	4115.9	4106.3	4184.6	4222.3
37.5°	4121.1	4091.6	4128.5	4148.4	4234.8
40°	4062.8	4079.0	4100.4	4149.2	4184.6
42.5°	3984.5	4002.9	4097.5	4062.8	4093.8
45°	3758.5	3816.8	3949.8	3875.9	3840.5
47.5°	3528.8	3666.9	3726.7	3708.3	3559.1
50°	3202.4	3317.6	3365.6	3355.2	3203.8
52.5°	2809.4	2827.9	2874.4	2836.8	2768.8
55°	2298.4	2356.7	2330.9	2327.2	2270.3
57.5°	1875.2	1909.2	1902.5	1892.9	1827.9
60°	1404.0	1430.6	1439.4	1436.5	1415.8
62.5°	1039.9	1045.0	1048.7	1064.3	1036.2
65°	765.1	752.6	764.4	765.1	779.9
67.5°	548.0	543.6	550.2	553.9	572.4
70°	407.7	402.5	400.3	412.1	426.1
72.5°	312.4	308.0	310.2	315.4	317.6
75°	231.2	236.3	233.4	234.9	237.1
77.5°	183.9	183.2	181.7	182.4	184.6
80°	152.1	150.7	150.7	149.2	151.4
82.5°	121.1	122.6	121.9	122.6	122.6
85°	96.8	97.5	97.5	97.5	96.8
87.5°	81.2	82.0	81.2	82.7	82.0
90°	76.1	76.8	76.8	77.5	76.8
92.5°	77.5	79.0	79.0	80.5	79.8
95°	84.2	84.2	84.9	85.7	86.4
97.5°	96.0	96.8	98.2	99.0	99.0
100°	107.1	108.6	109.3	110.0	111.5
102.5°	113.7	113.7	113.7	115.2	115.2
105°	126.3	124.8	121.1	123.3	122.6
107.5°	135.2	133.7	132.9	135.2	136.6
110°	144.8	143.3	142.5	144.8	146.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	149.2	148.4	148.4	149.9	151.4
115°	153.6	152.9	152.9	154.4	155.1
117.5°	155.8	155.8	157.3	157.3	158.0
120°	156.6	157.3	158.8	158.8	158.8
122.5°	158.8	158.0	160.3	159.5	160.3
125°	160.3	160.3	161.7	161.0	161.7
127.5°	161.7	161.0	162.5	162.5	162.5
130°	163.2	163.2	164.7	164.7	164.7
132.5°	164.7	164.0	165.4	166.2	167.7
135°	166.2	165.4	166.2	168.4	169.9
137.5°	167.7	166.9	166.9	169.1	171.3
140°	169.9	170.6	169.1	171.3	172.1
142.5°	180.2	180.2	178.0	180.2	183.2
145°	190.5	190.5	190.5	192.0	192.8
147.5°	195.7	196.5	197.2	197.2	197.9
150°	197.2	197.2	197.2	197.2	197.9
152.5°	195.0	194.2	189.8	193.5	194.2
155°	184.6	183.9	178.0	183.2	183.2
157.5°	175.8	175.0	169.1	174.3	175.0
160°	169.1	172.8	166.9	172.1	168.4
162.5°	152.9	160.3	156.6	158.0	152.1
165°	140.3	143.3	142.5	141.8	138.8
167.5°	132.2	135.2	133.7	134.4	130.0
170°	124.1	126.3	127.0	124.8	121.9
172.5°	110.0	111.5	113.7	110.0	110.0
175°	101.9	100.4	100.4	100.4	100.4
177.5°	105.6	105.6	106.4	104.1	104.1
180°	110.0	110.0	110.0	110.0	110.0

(END OF REPORT)