

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: P231506

Luminaire Tested: **SSLED-LD5-36-W-UNV-L835-CD2-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: P231506
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-LD5-36-W-UNV-L835-CD2-U-CLR22-CLCDL22
Description: STEELER CLEAR REFRACTOR LENS AND CONICAL 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: 31106.0 lumens
Efficiency: N/A
Efficacy: 93.2 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

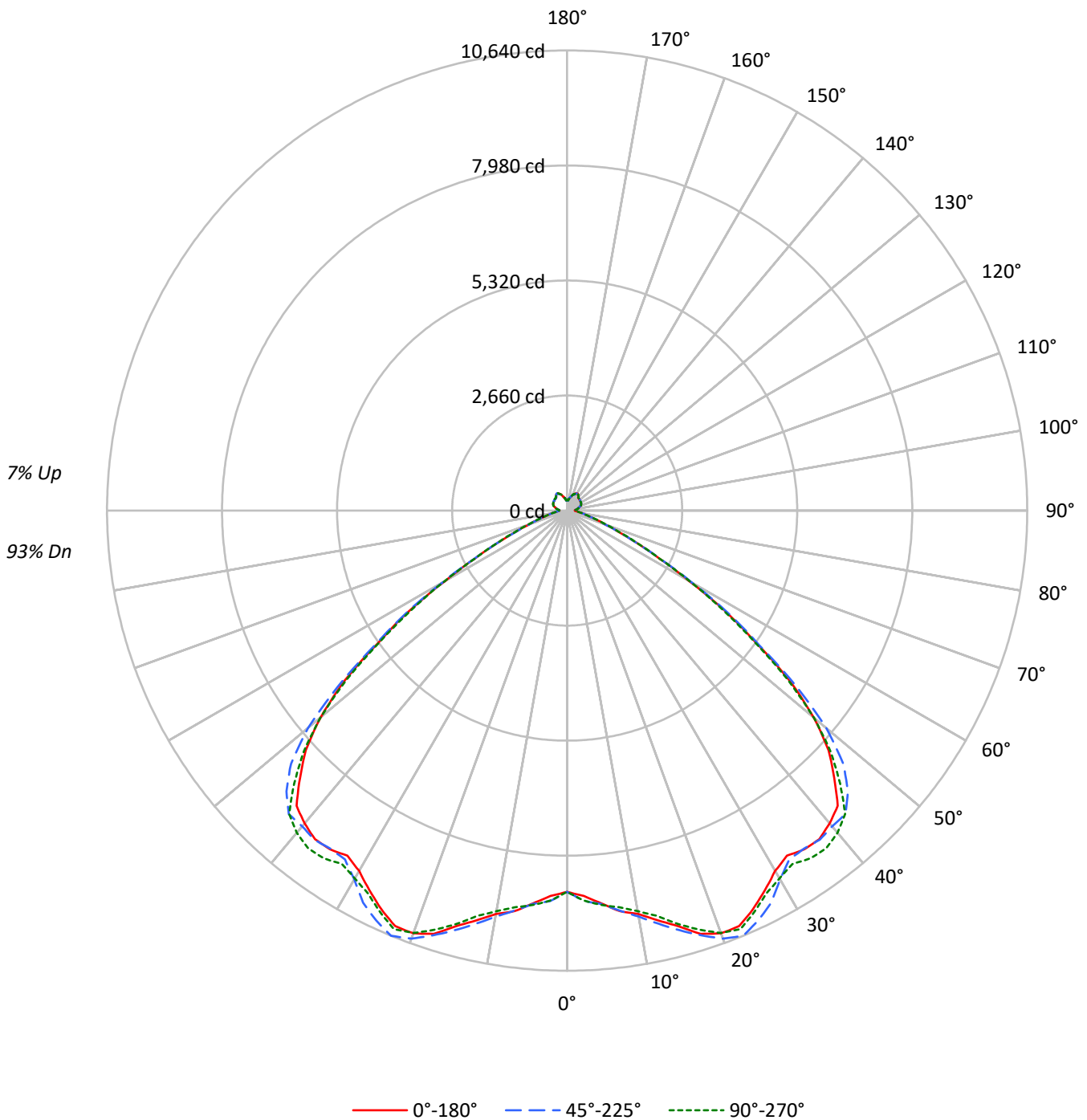
Input Watts (W): 333.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	43487	43487	43487
5°	41884	41955	42065
10°	40992	41267	40717
15°	41020	41424	40801
20°	41237	41754	41203
25°	39104	40213	39381
30°	36182	37022	36938
35°	35457	35394	36393
40°	34794	35116	35838
45°	32227	33867	32930
50°	27703	29114	27715
55°	20216	20502	19969
60°	12658	12978	12765
65°	7131	7124	7269
70°	3963	3891	4143
75°	2368	2390	2428
80°	1659	1643	1651
85°	1138	1147	1138



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	882.1	2.8
10°-20°	2834.7	9.1
20°-30°	4718.7	15.2
30°-40°	6069.9	19.5
40°-50°	6858.1	22.0
50°-60°	4870.6	15.7
60°-70°	1878.6	6.0
70°-80°	617.8	2.0
80°-90°	262.9	0.8
90°-100°	225.1	0.7
100°-110°	306.3	1.0
110°-120°	352.1	1.1
120°-130°	335.3	1.1
130°-140°	300.4	1.0
140°-150°	273.7	0.9
150°-160°	198.0	0.6
160°-170°	97.0	0.3
170°-180°	24.6	0.1
0°-30°	8435.4	27.1
0°-40°	14505.4	46.6
0°-60°	26234.1	84.3
0°-90°	28993.5	93.2
90°-120°	883.5	2.8
90°-150°	1792.8	5.8
90°-180°	2112.0	6.8
0°-180°	31106.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8814	8814	8814	8814	8814	
5°	9116	9111	9132	9090	9156	882
15°	9949	9993	10046	9962	9896	2839
25°	10168	10117	10457	10192	10240	4672
35°	9561	9566	9544	9726	9813	5988
45°	8735	8871	9180	9008	8926	6685
55°	5342	5477	5417	5409	5276	4804
65°	1778	1749	1777	1778	1813	1865
75°	537	549	542	546	551	617
85°	225	227	227	227	225	212
90°	177	178	178	180	178	99
95°	196	196	197	199	201	172
105°	294	290	282	287	285	308
115°	357	355	355	359	360	351
125°	372	372	376	374	376	334
135°	386	384	386	391	395	299
145°	443	443	443	446	448	273
155°	429	427	414	426	426	200
165°	326	333	331	330	323	96
175°	237	233	233	233	233	25
180°	256	256	256	256	256	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8814.1	8814.1	8814.1	8814.1	8814.1
2.5°	8920.5	9023.5	9037.3	8961.7	9028.7
5°	9116.2	9111.1	9131.7	9090.5	9155.7
7.5°	9344.5	9313.6	9329.1	9277.6	9250.1
10°	9468.1	9461.2	9531.6	9457.8	9404.6
12.5°	9705.0	9691.2	9787.4	9677.5	9598.5
15°	9948.7	9993.3	10046.5	9962.4	9895.5
17.5°	10262.8	10163.3	10295.4	10151.3	10159.8
20°	10401.9	10262.8	10532.3	10283.4	10393.3
22.5°	10400.1	10321.2	10640.4	10257.7	10474.0
25°	10168.4	10116.9	10456.8	10192.4	10240.5
27.5°	9898.9	9996.8	10218.2	10086.0	9976.2
30°	9619.1	9924.7	9842.3	10065.4	9820.0
32.5°	9461.2	9754.7	9562.5	9917.8	9689.5
35°	9560.8	9565.9	9543.6	9725.6	9813.1
37.5°	9577.9	9509.3	9595.1	9641.5	9842.3
40°	9442.3	9480.1	9529.9	9643.2	9725.6
42.5°	9260.4	9303.3	9523.0	9442.3	9514.4
45°	8735.2	8870.8	9179.7	9008.1	8925.7
47.5°	8201.3	8522.3	8661.3	8618.4	8271.7
50°	7442.7	7710.4	7822.0	7798.0	7446.1
52.5°	6529.5	6572.4	6680.5	6593.0	6435.1
55°	5341.7	5477.3	5417.2	5408.6	5276.5
57.5°	4358.1	4437.1	4421.6	4399.3	4248.3
60°	3263.0	3324.8	3345.4	3338.6	3290.5
62.5°	2416.8	2428.8	2437.4	2473.4	2408.2
65°	1778.3	1749.1	1776.6	1778.3	1812.6
67.5°	1273.6	1263.3	1278.8	1287.4	1330.3
70°	947.5	935.5	930.3	957.8	990.4
72.5°	726.1	715.8	720.9	732.9	738.1
75°	537.3	549.3	542.4	545.8	551.0
77.5°	427.4	425.7	422.3	424.0	429.1
80°	353.6	350.2	350.2	346.7	351.9
82.5°	281.5	284.9	283.2	284.9	284.9
85°	224.9	226.6	226.6	226.6	224.9
87.5°	188.8	190.5	188.8	192.2	190.5
90°	176.8	178.5	178.5	180.2	178.5
92.5°	180.2	183.7	183.7	187.1	185.4
95°	195.7	195.7	197.4	199.1	200.8
97.5°	223.1	224.9	228.3	230.0	230.0
100°	248.9	252.3	254.0	255.8	259.2
102.5°	264.3	264.3	264.3	267.8	267.8
105°	293.5	290.1	281.5	286.7	284.9
107.5°	314.1	310.7	309.0	314.1	317.5
110°	336.4	333.0	331.3	336.4	339.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	346.7	345.0	345.0	348.4	351.9
115°	357.0	355.3	355.3	358.7	360.5
117.5°	362.2	362.2	365.6	365.6	367.3
120°	363.9	365.6	369.0	369.0	369.0
122.5°	369.0	367.3	372.5	370.8	372.5
125°	372.5	372.5	375.9	374.2	375.9
127.5°	375.9	374.2	377.6	377.6	377.6
130°	379.3	379.3	382.8	382.8	382.8
132.5°	382.8	381.1	384.5	386.2	389.6
135°	386.2	384.5	386.2	391.4	394.8
137.5°	389.6	387.9	387.9	393.1	398.2
140°	394.8	396.5	393.1	398.2	399.9
142.5°	418.8	418.8	413.7	418.8	425.7
145°	442.9	442.9	442.9	446.3	448.0
147.5°	454.9	456.6	458.3	458.3	460.0
150°	458.3	458.3	458.3	458.3	460.0
152.5°	453.2	451.4	441.1	449.7	451.4
155°	429.1	427.4	413.7	425.7	425.7
157.5°	408.5	406.8	393.1	405.1	406.8
160°	393.1	401.7	387.9	399.9	391.4
162.5°	355.3	372.5	363.9	367.3	353.6
165°	326.1	333.0	331.3	329.6	322.7
167.5°	307.2	314.1	310.7	312.4	302.1
170°	288.4	293.5	295.2	290.1	283.2
172.5°	255.8	259.2	264.3	255.8	255.8
175°	236.9	233.4	233.4	233.4	233.4
177.5°	245.5	245.5	247.2	242.0	242.0
180°	255.8	255.8	255.8	255.8	255.8

(END OF REPORT)