

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: P231487

Luminaire Tested: **SSLED-LD5-36-W-UNV-L850-CD2-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: P231487
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-LD5-36-W-UNV-L850-CD2-U-CLR22
Description: STEELER CLEAR REFRACTOR LENS
Light Source: (240) 5000 CCT, 80 CRI LEDS
Ballast/Driver: (2) ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35717.0 lumens
Efficiency: N/A
Efficacy: 107.0 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

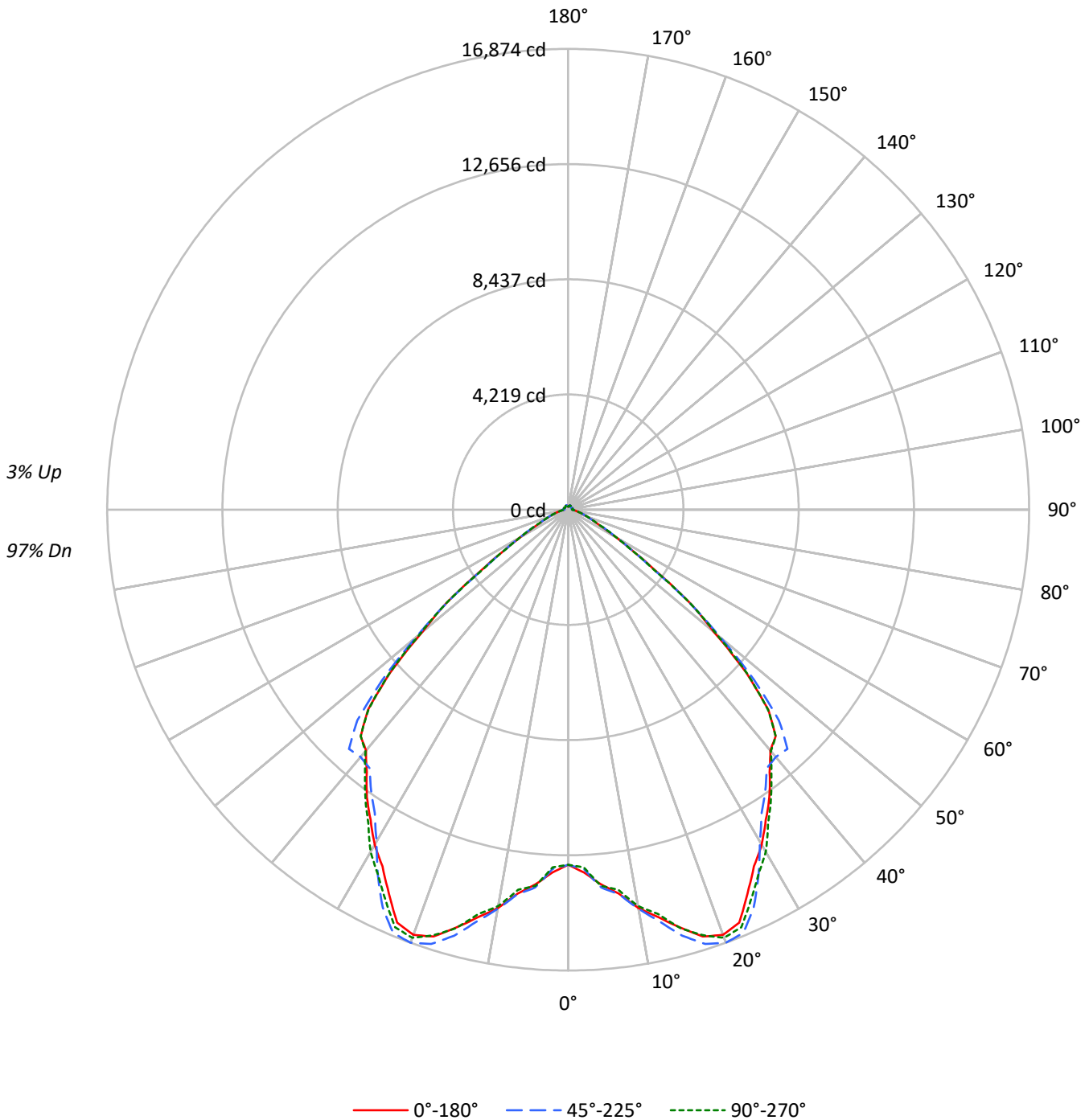
Input Watts (W): 333.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	53030	53030	53030
5°	53121	53581	53355
10°	54617	54742	54351
15°	56377	57476	56438
20°	57379	58448	57773
25°	52739	54612	53705
30°	47597	47132	48622
35°	43017	42135	43341
40°	38706	39769	38839
45°	35248	37136	35183
50°	24203	25228	24578
55°	13972	13498	13634
60°	7544	7677	7558
65°	4338	4522	4404
70°	2966	3044	3044
75°	2102	2135	2110
80°	1567	1585	1558
85°	1120	1130	1110



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1341.6	3.8
10°-20°	4548.6	12.7
20°-30°	7296.0	20.4
30°-40°	8022.8	22.5
40°-50°	7807.1	21.9
50°-60°	3743.2	10.5
60°-70°	1223.9	3.4
70°-80°	533.5	1.5
80°-90°	246.4	0.7
90°-100°	167.8	0.5
100°-110°	170.4	0.5
110°-120°	154.1	0.4
120°-130°	122.9	0.3
130°-140°	108.3	0.3
140°-150°	99.5	0.3
150°-160°	77.4	0.2
160°-170°	42.0	0.1
170°-180°	11.5	0.0
0°-30°	13186.2	36.9
0°-40°	21209.0	59.4
0°-60°	32759.3	91.7
0°-90°	34763.1	97.3
90°-120°	492.3	1.4
90°-150°	823.0	2.3
90°-180°	954.0	2.7
0°-180°	35717.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13005	13005	13005	13005	13005	
5°	13767	13757	13886	13833	13827	###
15°	15840	16017	16149	15962	15858	4507
25°	15518	16060	16070	16244	15803	7134
35°	12844	12568	12581	12693	12941	8018
45°	10358	10227	10913	10238	10339	7632
55°	3915	3934	3782	3900	3820	3729
65°	1119	1140	1167	1161	1136	1199
75°	479	483	487	483	481	528
85°	214	214	216	216	212	200
90°	150	153	153	155	152	84
95°	142	140	142	146	148	123
105°	174	159	159	152	165	172
115°	150	159	157	157	153	153
125°	131	131	131	133	136	122
135°	140	138	134	138	142	109
145°	159	157	159	159	163	99
155°	169	169	169	169	167	77
165°	150	148	148	146	144	42
175°	117	117	116	116	117	12
180°	119	119	119	119	119	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13005.3	13005.3	13005.3	13005.3	13005.3
2.5°	13295.1	13226.9	13162.5	13115.2	13103.8
5°	13766.7	13757.2	13886.0	13833.0	13827.3
7.5°	14173.9	14198.5	14192.8	14124.6	14035.6
10°	14806.4	14812.1	14840.5	14802.6	14734.4
12.5°	15287.5	15505.3	15439.0	15370.8	15158.7
15°	15840.5	16016.6	16149.2	15961.7	15857.5
17.5°	16385.9	16573.4	16671.9	16624.5	16332.9
20°	16565.8	16857.5	16874.5	16920.0	16679.5
22.5°	16363.2	16696.5	16759.0	16846.1	16548.8
25°	15518.5	16060.2	16069.6	16243.9	15802.6
27.5°	14723.1	15179.5	15082.9	15406.8	15071.6
30°	14162.5	14242.0	14024.2	14433.3	14467.4
32.5°	13465.5	13268.6	13173.9	13367.1	13618.9
35°	12844.3	12567.8	12581.1	12692.8	12940.9
37.5°	12117.1	12310.3	11935.3	12465.6	12215.6
40°	11509.2	11882.2	11825.4	11973.2	11548.9
42.5°	11240.2	11204.2	11878.5	11227.0	11242.1
45°	10357.7	10227.0	10912.6	10238.4	10338.7
47.5°	8831.2	9257.3	9232.7	9384.2	8886.1
50°	6973.3	7408.9	7268.7	7590.7	7081.2
52.5°	5630.5	5443.0	5592.6	5501.7	5630.5
55°	3914.7	3933.6	3782.1	3899.5	3820.0
57.5°	2776.4	2838.9	2784.0	2780.2	2751.8
60°	2037.8	2045.4	2073.8	2068.1	2041.6
62.5°	1490.5	1505.6	1537.8	1535.9	1518.9
65°	1119.3	1140.1	1166.6	1161.0	1136.3
67.5°	873.1	895.8	901.5	905.3	909.1
70°	723.5	731.0	742.4	742.4	742.4
72.5°	602.3	611.7	613.6	615.5	611.7
75°	479.2	482.9	486.7	482.9	481.0
77.5°	395.8	395.8	393.9	392.0	393.9
80°	329.5	331.4	333.3	329.5	327.6
82.5°	268.9	270.8	272.7	270.8	270.8
85°	214.0	214.0	215.9	215.9	212.1
87.5°	176.1	176.1	176.1	178.0	176.1
90°	149.6	153.4	153.4	155.3	151.5
92.5°	134.5	138.3	138.3	142.0	138.3
95°	142.0	140.1	142.0	145.8	147.7
97.5°	159.1	162.9	168.6	174.2	168.6
100°	166.7	179.9	183.7	183.7	172.3
102.5°	162.9	161.0	168.6	164.8	170.4
105°	174.2	159.1	159.1	151.5	164.8
107.5°	153.4	161.0	136.4	161.0	151.5
110°	155.3	151.5	149.6	155.3	157.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	159.1	145.8	157.2	145.8	159.1
115°	149.6	159.1	157.2	157.2	153.4
117.5°	155.3	159.1	162.9	164.8	155.3
120°	151.5	145.8	151.5	155.3	155.3
122.5°	136.4	134.5	136.4	140.1	147.7
125°	130.7	130.7	130.7	132.6	136.4
127.5°	132.6	132.6	130.7	132.6	134.5
130°	138.3	136.4	138.3	138.3	140.1
132.5°	140.1	138.3	134.5	138.3	143.9
135°	140.1	138.3	134.5	138.3	142.0
137.5°	142.0	140.1	140.1	140.1	143.9
140°	145.8	147.7	147.7	147.7	147.7
142.5°	153.4	153.4	153.4	153.4	157.2
145°	159.1	157.2	159.1	159.1	162.9
147.5°	164.8	162.9	164.8	164.8	166.7
150°	168.6	166.7	168.6	168.6	168.6
152.5°	170.4	168.6	170.4	170.4	170.4
155°	168.6	168.6	168.6	168.6	166.7
157.5°	164.8	164.8	164.8	164.8	162.9
160°	161.0	162.9	161.0	161.0	159.1
162.5°	155.3	155.3	155.3	153.4	153.4
165°	149.6	147.7	147.7	145.8	143.9
167.5°	142.0	140.1	138.3	138.3	136.4
170°	130.7	130.7	130.7	128.8	128.8
172.5°	119.3	117.4	117.4	117.4	115.5
175°	117.4	117.4	115.5	115.5	117.4
177.5°	117.4	117.4	119.3	117.4	117.4
180°	119.3	119.3	119.3	119.3	119.3

(END OF REPORT)