

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: P231486

Luminaire Tested: **SSLED-LD5-36-W-UNV-L840-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: P231486
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-L840-CD2-U-CLR22
Description: STEELER CLEAR REFRACTOR LENS
Light Source: (240) 4000 CCT, 80 CRI LEDS
Ballast/Driver: (2) ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34622.0 lumens
Efficiency: N/A
Efficacy: 103.7 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

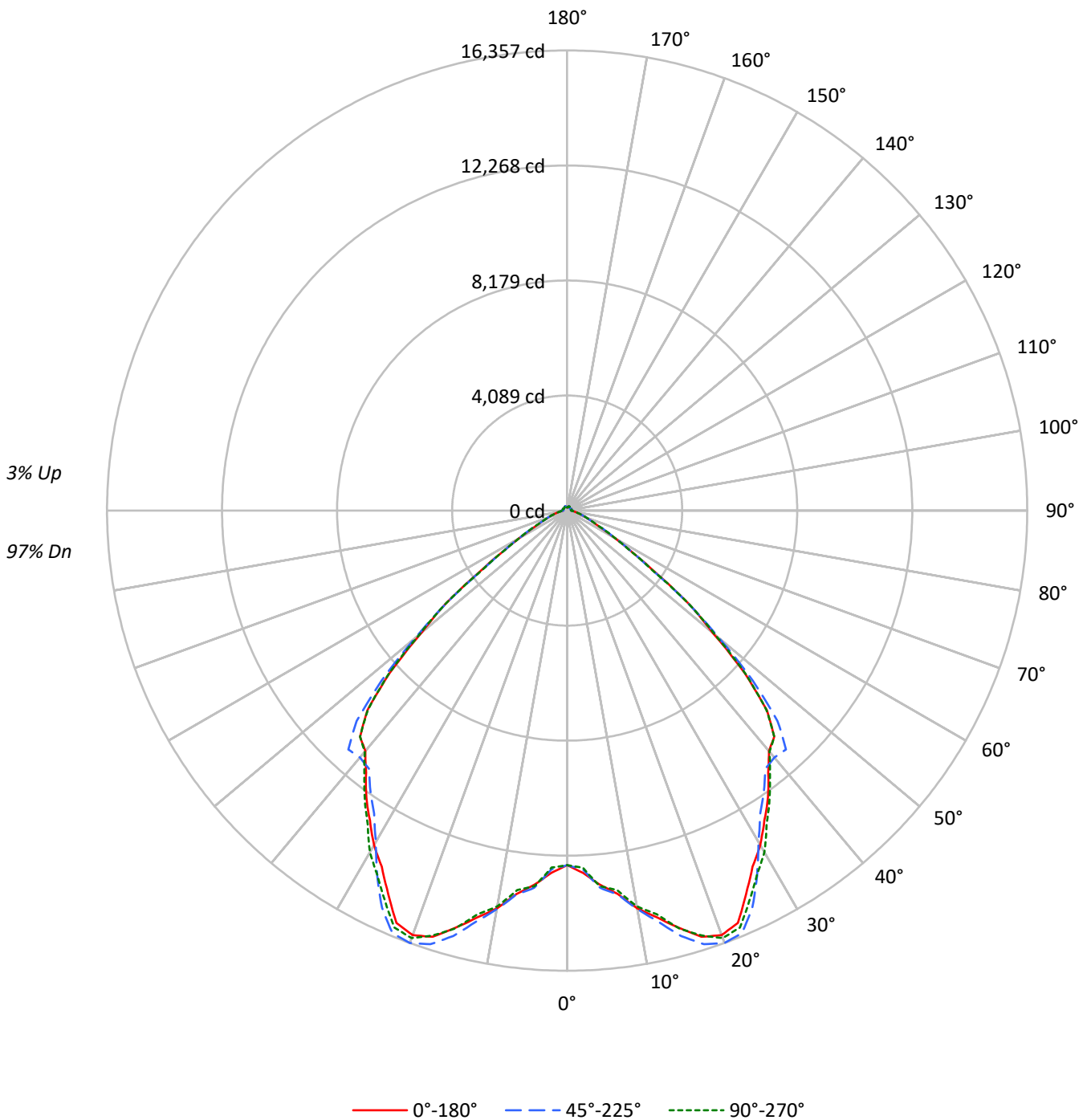
Input Watts (W): 333.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	51404	51404	51404
5°	51492	51939	51719
10°	52942	53064	52685
15°	54649	55714	54708
20°	55620	56656	56001
25°	51123	52938	52058
30°	46138	45687	47131
35°	41698	40844	42012
40°	37519	38550	37649
45°	34167	35998	34105
50°	23461	24455	23824
55°	13543	13084	13216
60°	7313	7442	7326
65°	4205	4383	4269
70°	2875	2950	2950
75°	2037	2069	2045
80°	1519	1536	1510
85°	1086	1096	1076



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1300.5	3.8
10°-20°	4409.2	12.7
20°-30°	7072.4	20.4
30°-40°	7776.8	22.5
40°-50°	7567.8	21.9
50°-60°	3628.5	10.5
60°-70°	1186.4	3.4
70°-80°	517.1	1.5
80°-90°	238.9	0.7
90°-100°	162.7	0.5
100°-110°	165.2	0.5
110°-120°	149.4	0.4
120°-130°	119.1	0.3
130°-140°	105.0	0.3
140°-150°	96.5	0.3
150°-160°	75.0	0.2
160°-170°	40.7	0.1
170°-180°	11.1	0.0
0°-30°	12782.0	36.9
0°-40°	20558.8	59.4
0°-60°	31755.0	91.7
0°-90°	33697.4	97.3
90°-120°	477.2	1.4
90°-150°	797.8	2.3
90°-180°	925.0	2.7
0°-180°	34622.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12607	12607	12607	12607	12607	
5°	13345	13335	13460	13409	13403	###
15°	15355	15526	15654	15472	15371	4369
25°	15043	15568	15577	15746	15318	6915
35°	12451	12182	12195	12304	12544	7772
45°	10040	9914	10578	9924	10022	7398
55°	3795	3813	3666	3780	3703	3615
65°	1085	1105	1131	1125	1102	1162
75°	464	468	472	468	466	512
85°	207	207	209	209	206	194
90°	145	149	149	150	147	81
95°	138	136	138	141	143	119
105°	169	154	154	147	160	167
115°	145	154	152	152	149	149
125°	127	127	127	128	132	118
135°	136	134	130	134	138	106
145°	154	152	154	154	158	96
155°	163	163	163	163	162	75
165°	145	143	143	141	140	41
175°	114	114	112	112	114	11
180°	116	116	116	116	116	



TEST NUMBER: P231486

CATALOG NUMBER: SSLED-LD5-36-W-UNV-L840-CD2-U-CLR22

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12606.6	12606.6	12606.6	12606.6	12606.6
2.5°	12887.5	12821.4	12759.0	12713.1	12702.1
5°	13344.6	13335.4	13460.3	13408.9	13403.4
7.5°	13739.3	13763.2	13757.7	13691.6	13605.3
10°	14352.5	14358.0	14385.5	14348.8	14282.7
12.5°	14818.8	15029.9	14965.6	14899.6	14693.9
15°	15354.8	15525.6	15654.1	15472.3	15371.4
17.5°	15883.6	16065.3	16160.8	16114.9	15832.2
20°	16058.0	16340.7	16357.2	16401.3	16168.1
22.5°	15861.5	16184.6	16245.2	16329.7	16041.4
25°	15042.8	15567.8	15577.0	15745.9	15318.1
27.5°	14271.7	14714.1	14620.5	14934.4	14609.5
30°	13728.3	13805.4	13594.3	13990.8	14023.9
32.5°	13052.7	12861.8	12770.0	12957.3	13201.4
35°	12450.6	12182.5	12195.4	12303.7	12544.2
37.5°	11745.6	11932.9	11569.4	12083.4	11841.1
40°	11156.3	11518.0	11462.9	11606.1	11194.9
42.5°	10895.6	10860.7	11514.3	10882.8	10897.5
45°	10040.1	9913.5	10578.0	9924.5	10021.8
47.5°	8560.5	8973.5	8949.6	9096.5	8613.7
50°	6759.5	7181.7	7045.9	7358.0	6864.2
52.5°	5457.9	5276.2	5421.2	5333.1	5457.9
55°	3794.7	3813.0	3666.1	3780.0	3702.9
57.5°	2691.3	2751.9	2698.7	2695.0	2667.5
60°	1975.3	1982.7	2010.2	2004.7	1979.0
62.5°	1444.8	1459.5	1490.7	1488.9	1472.3
65°	1085.0	1105.2	1130.9	1125.4	1101.5
67.5°	846.3	868.3	873.9	877.5	881.2
70°	701.3	708.6	719.6	719.6	719.6
72.5°	583.8	593.0	594.8	596.6	593.0
75°	464.5	468.1	471.8	468.1	466.3
77.5°	383.7	383.7	381.9	380.0	381.9
80°	319.4	321.3	323.1	319.4	317.6
82.5°	260.7	262.5	264.4	262.5	262.5
85°	207.4	207.4	209.3	209.3	205.6
87.5°	170.7	170.7	170.7	172.6	170.7
90°	145.0	148.7	148.7	150.5	146.9
92.5°	130.3	134.0	134.0	137.7	134.0
95°	137.7	135.9	137.7	141.4	143.2
97.5°	154.2	157.9	163.4	168.9	163.4
100°	161.6	174.4	178.1	178.1	167.1
102.5°	157.9	156.0	163.4	159.7	165.2
105°	168.9	154.2	154.2	146.9	159.7
107.5°	148.7	156.0	132.2	156.0	146.9
110°	150.5	146.9	145.0	150.5	152.4



TEST NUMBER: P231486

CATALOG NUMBER: SSLED-LD5-36-W-UNV-L840-CD2-U-CLR22

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	154.2	141.4	152.4	141.4	154.2
115°	145.0	154.2	152.4	152.4	148.7
117.5°	150.5	154.2	157.9	159.7	150.5
120°	146.9	141.4	146.9	150.5	150.5
122.5°	132.2	130.3	132.2	135.9	143.2
125°	126.7	126.7	126.7	128.5	132.2
127.5°	128.5	128.5	126.7	128.5	130.3
130°	134.0	132.2	134.0	134.0	135.9
132.5°	135.9	134.0	130.3	134.0	139.5
135°	135.9	134.0	130.3	134.0	137.7
137.5°	137.7	135.9	135.9	135.9	139.5
140°	141.4	143.2	143.2	143.2	143.2
142.5°	148.7	148.7	148.7	148.7	152.4
145°	154.2	152.4	154.2	154.2	157.9
147.5°	159.7	157.9	159.7	159.7	161.6
150°	163.4	161.6	163.4	163.4	163.4
152.5°	165.2	163.4	165.2	165.2	165.2
155°	163.4	163.4	163.4	163.4	161.6
157.5°	159.7	159.7	159.7	159.7	157.9
160°	156.0	157.9	156.0	156.0	154.2
162.5°	150.5	150.5	150.5	148.7	148.7
165°	145.0	143.2	143.2	141.4	139.5
167.5°	137.7	135.9	134.0	134.0	132.2
170°	126.7	126.7	126.7	124.8	124.8
172.5°	115.7	113.8	113.8	113.8	112.0
175°	113.8	113.8	112.0	112.0	113.8
177.5°	113.8	113.8	115.7	113.8	113.8
180°	115.7	115.7	115.7	115.7	115.7

(END OF REPORT)