

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: P231422

Luminaire Tested: **SSLED-LD5-36-W-UNV-L835-CD2-U-FRR22**

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: P231422  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1708-240-2)  
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-FRR22  
Description: STEELER WHITE REFRACTOR LENS  
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: 33154.0 lumens  
Efficiency: N/A  
Efficacy: 99.3 lumens/watt  
Spacing Criteria (0/90/45): 1.43 / 1.43 / 1.45  
Luminous Opening: Vertical Cylinder (Dia: 1.83' x H: 1')  
CIE Type: Direct

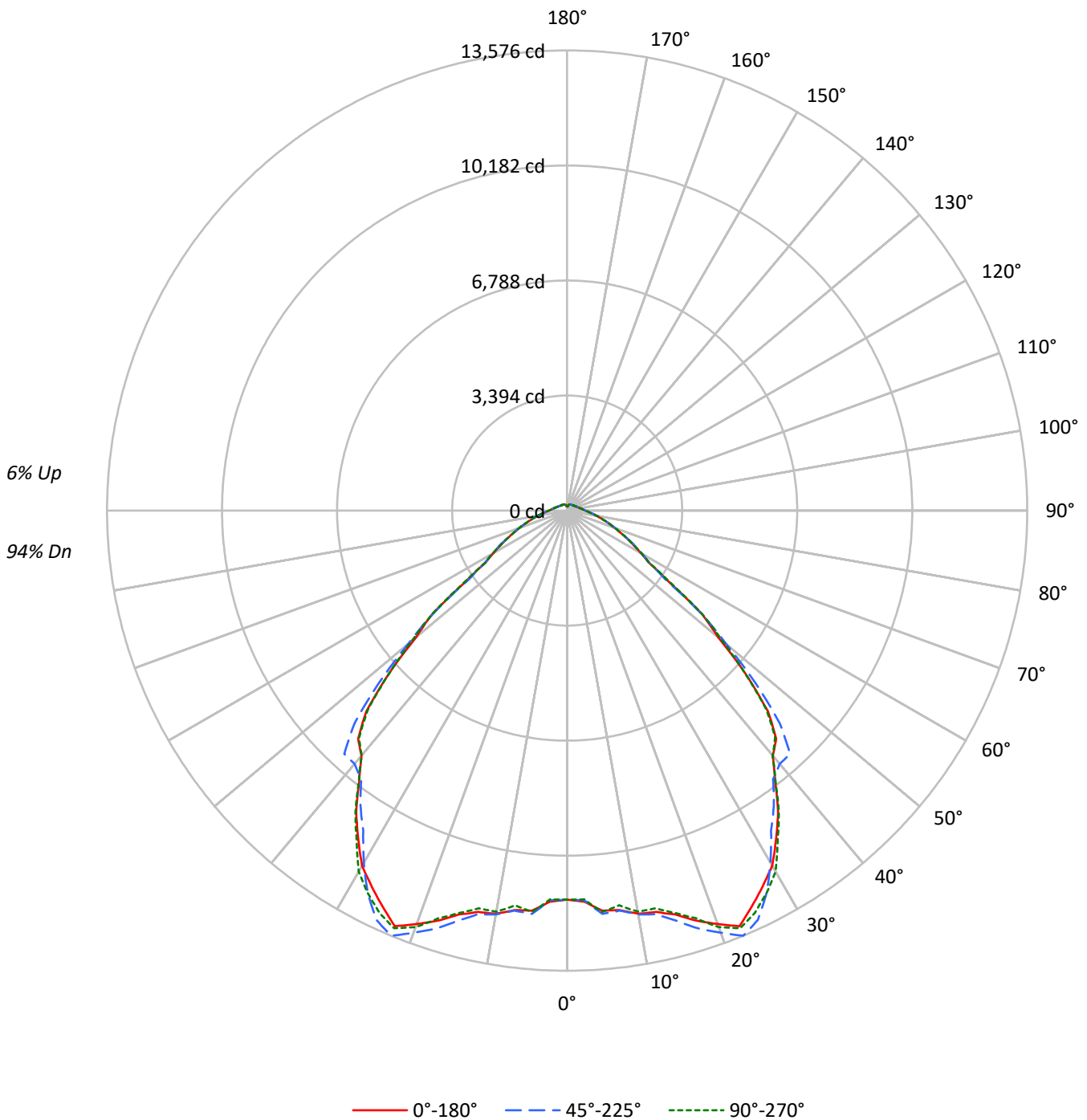
Input Watts (W): 333.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	109	104	100	97	105	101	98	95	96	93	91	91	89	87	87	85	84	81
2	100	93	87	81	97	90	85	80	86	81	77	82	78	75	78	75	72	70
3	92	83	75	69	89	81	74	69	77	71	67	74	69	65	70	66	63	61
4	85	74	66	60	82	72	65	59	69	63	58	66	61	57	64	59	55	53
5	79	67	59	53	76	65	58	52	63	56	51	60	55	50	58	53	49	47
6	73	61	52	46	71	59	52	46	57	50	45	55	49	44	53	48	44	42
7	68	55	47	41	66	54	47	41	52	45	40	50	44	40	49	43	39	37
8	63	51	43	37	61	50	42	37	48	41	36	46	40	36	45	39	35	33
9	59	47	39	34	58	46	38	33	44	38	33	43	37	32	41	36	32	30
10	55	43	35	31	54	42	35	30	41	34	30	40	34	30	38	33	29	28

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	46809	46809	46809
5°	45707	46091	45853
10°	44549	44625	44321
15°	43912	44608	43741
20°	44947	45916	45297
25°	43803	45267	44509
30°	40663	40317	41344
35°	36337	35607	36475
40°	31743	32817	31720
45°	28500	30200	28336
50°	20214	21287	20709
55°	13043	12571	13312
60°	9309	9436	9436
65°	7544	7631	7551
70°	6087	6185	6150
75°	4999	5074	5014
80°	4170	4219	4211
85°	3522	3585	3549



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1132.4	3.4
10°-20°	3566.3	10.8
20°-30°	6033.1	18.2
30°-40°	6746.0	20.3
40°-50°	6375.7	19.2
50°-60°	3504.7	10.6
60°-70°	1961.5	5.9
70°-80°	1233.7	3.7
80°-90°	751.7	2.3
90°-100°	501.9	1.5
100°-110°	374.1	1.1
110°-120°	286.2	0.9
120°-130°	223.4	0.7
130°-140°	175.3	0.5
140°-150°	134.1	0.4
150°-160°	93.2	0.3
160°-170°	48.4	0.1
170°-180°	12.3	0.0
0°-30°	10731.7	32.4
0°-40°	17477.7	52.7
0°-60°	27358.1	82.5
0°-90°	31305.1	94.4
90°-120°	1162.2	3.5
90°-150°	1695.1	5.1
90°-180°	1849.0	5.6
0°-180°	33154.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	11480	11480	11480	11480	11480	
5°	11845	11866	11945	11868	11883	###
15°	12338	12453	12534	12396	12290	3535
25°	12889	13349	13320	13536	13097	5909
35°	10850	10620	10632	10654	10891	6747
45°	8375	8303	8874	8229	8327	6211
55°	3654	3632	3522	3692	3730	3488
65°	1946	1953	1969	1958	1948	1941
75°	1140	1148	1157	1154	1143	1222
85°	673	675	685	676	678	592
90°	530	536	539	537	534	293
95°	451	455	458	457	455	358
105°	350	350	352	352	352	372
115°	285	287	287	288	288	285
125°	246	247	247	249	249	222
135°	225	225	225	225	227	175
145°	213	213	213	213	215	134
155°	201	202	201	201	202	93
165°	170	170	168	168	168	48
175°	124	124	122	122	124	12
180°	127	127	127	127	127	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	11479.8	11479.8	11479.8	11479.8	11479.8
2.5°	11546.7	11538.1	11507.2	11478.1	11479.8
5°	11845.4	11866.0	11944.9	11867.7	11883.2
7.5°	11886.6	11934.7	11903.8	11838.5	11745.8
10°	12077.1	12094.3	12097.7	12063.4	12015.3
12.5°	12128.6	12286.5	12197.3	12166.4	12022.2
15°	12338.0	12453.0	12533.7	12396.4	12290.0
17.5°	12686.5	12882.1	12933.6	12875.3	12609.2
20°	12976.6	13249.5	13256.3	13282.1	13077.8
22.5°	13273.5	13531.0	13575.6	13623.7	13337.0
25°	12889.0	13349.0	13319.8	13536.1	13096.7
27.5°	12494.2	12825.5	12738.0	12983.4	12729.4
30°	12099.4	12173.2	11996.4	12247.0	12302.0
32.5°	11472.9	11248.1	11198.3	11345.9	11557.0
35°	10849.8	10619.8	10631.8	10654.2	10891.0
37.5°	10079.1	10314.3	9981.3	10377.8	10101.5
40°	9438.9	9801.1	9758.2	9814.8	9432.0
42.5°	9126.5	9109.3	9734.1	9121.3	9083.6
45°	8374.7	8302.6	8874.2	8228.8	8326.6
47.5°	7150.8	7612.6	7542.2	7616.0	7144.0
50°	5824.0	6275.4	6133.0	6387.0	5966.5
52.5°	5012.1	4790.7	4952.0	4859.3	5032.7
55°	3654.4	3632.1	3522.2	3692.1	3729.9
57.5°	2856.2	2871.7	2883.7	2873.4	2866.5
60°	2514.6	2550.7	2549.0	2547.2	2549.0
62.5°	2209.1	2229.7	2252.0	2236.6	2238.3
65°	1946.5	1953.3	1968.8	1958.5	1948.2
67.5°	1692.4	1713.0	1721.6	1723.3	1714.8
70°	1484.8	1500.2	1508.8	1505.3	1500.2
72.5°	1308.0	1316.5	1332.0	1326.8	1316.5
75°	1139.7	1148.3	1156.9	1153.5	1143.2
77.5°	999.0	1005.9	1012.7	1014.4	1007.6
80°	877.1	884.0	887.4	882.3	885.7
82.5°	767.3	774.1	777.6	775.8	774.1
85°	672.9	674.6	684.9	676.3	678.0
87.5°	592.2	593.9	597.3	597.3	593.9
90°	530.4	535.5	539.0	537.3	533.8
92.5°	487.5	492.6	492.6	492.6	490.9
95°	451.4	454.9	458.3	456.6	454.9
97.5°	422.3	424.0	427.4	425.7	424.0
100°	394.8	396.5	399.9	398.2	396.5
102.5°	369.0	372.5	374.2	374.2	372.5
105°	350.2	350.2	351.9	351.9	351.9
107.5°	331.3	331.3	333.0	333.0	333.0
110°	315.8	315.8	315.8	315.8	317.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	298.7	300.4	300.4	300.4	302.1
115°	284.9	286.7	286.7	288.4	288.4
117.5°	272.9	272.9	274.6	274.6	276.4
120°	262.6	264.3	264.3	266.1	266.1
122.5°	254.0	254.0	255.8	255.8	257.5
125°	245.5	247.2	247.2	248.9	248.9
127.5°	238.6	240.3	242.0	242.0	242.0
130°	235.2	236.9	236.9	236.9	238.6
132.5°	230.0	230.0	230.0	231.7	233.4
135°	224.9	224.9	224.9	224.9	226.6
137.5°	219.7	221.4	221.4	221.4	221.4
140°	216.3	218.0	218.0	218.0	218.0
142.5°	214.6	216.3	216.3	216.3	216.3
145°	212.8	212.8	212.8	212.8	214.6
147.5°	211.1	211.1	211.1	211.1	211.1
150°	209.4	209.4	207.7	207.7	209.4
152.5°	206.0	206.0	204.3	206.0	206.0
155°	200.8	202.5	200.8	200.8	202.5
157.5°	197.4	197.4	197.4	197.4	197.4
160°	190.5	190.5	188.8	188.8	190.5
162.5°	180.2	180.2	180.2	180.2	180.2
165°	169.9	169.9	168.2	168.2	168.2
167.5°	157.9	157.9	157.9	157.9	157.9
170°	142.5	144.2	142.5	142.5	142.5
172.5°	125.3	125.3	125.3	125.3	125.3
175°	123.6	123.6	121.9	121.9	123.6
177.5°	123.6	125.3	125.3	125.3	123.6
180°	127.0	127.0	127.0	127.0	127.0

(END OF REPORT)