

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: P231444

Luminaire Tested: **SSLED-LD5-36-W-UNV-L840-CD2-U-FRR22-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: P231444
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1708-240-3)
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-FRR22-CLCDL22
Description: STEELER WHITE REFRACTOR LENS AND CONICAL DROP
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: 33849.0 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Spacing Criteria (0/90/45): 1.42 / 1.43 / 1.55
Luminous Opening: Vertical Cylinder (Dia: 1.67' x H: 1.17')
CIE Type: Semi-Direct

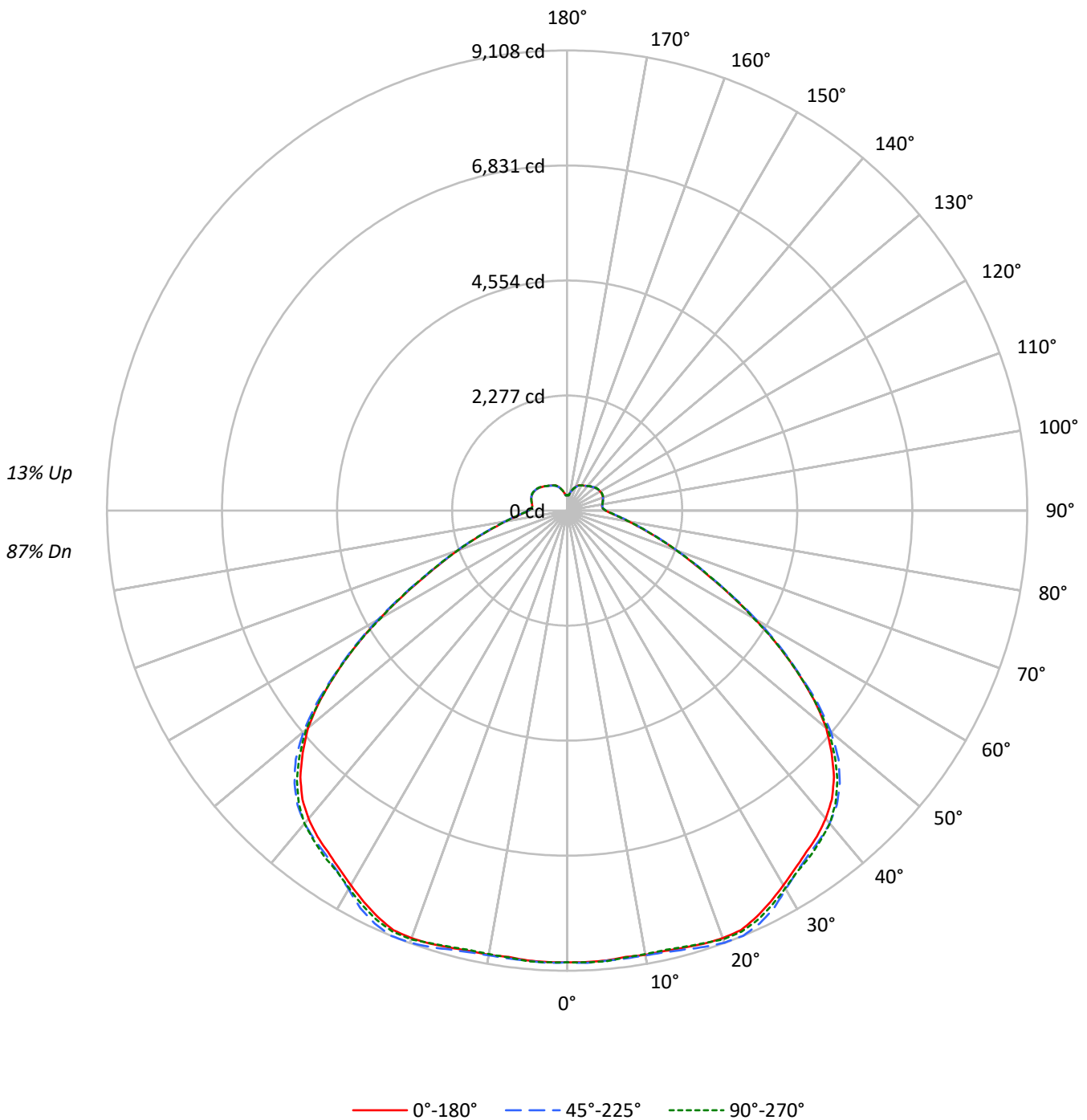
Input Watts (W): 333.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	90	90	90	87				
1	106	101	96	92	101	97	93	90	91	87	85	85	82	80	79	77	75	72				
2	96	88	81	75	92	85	79	73	79	74	70	74	70	66	69	66	63	60				
3	87	77	69	62	84	74	67	61	70	63	58	65	60	56	61	57	53	51				
4	80	68	59	53	77	66	58	52	62	55	50	58	52	48	54	50	46	43				
5	73	61	52	45	70	59	50	44	55	48	43	52	46	41	49	44	39	37				
6	68	54	45	39	65	53	44	38	50	42	37	47	41	36	44	39	35	32				
7	62	49	40	34	60	48	40	34	45	38	33	42	36	32	40	35	31	28				
8	58	45	36	30	56	43	35	30	41	34	29	39	33	28	37	31	27	25				
9	54	41	33	27	52	40	32	27	38	31	26	36	30	25	34	28	24	22				
10	51	37	30	24	49	37	29	24	35	28	23	33	27	23	31	26	22	20				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	44120	44120	44120
5°	41059	41093	41126
10°	38660	38692	38596
15°	36916	37083	36863
20°	35698	36077	35800
25°	34120	34671	34360
30°	32200	32545	32476
35°	30610	30869	31039
40°	29339	29792	29805
45°	27552	28155	27904
50°	24914	25358	25105
55°	21017	21128	21038
60°	16629	16793	16536
65°	12544	12684	12603
70°	9637	9675	9599
75°	7361	7458	7385
80°	5815	5867	5798
85°	4710	4784	4756



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	852.5	2.5
10°-20°	2545.2	7.5
20°-30°	4118.3	12.2
30°-40°	5234.7	15.5
40°-50°	5803.2	17.1
50°-60°	4971.5	14.7
60°-70°	3179.7	9.4
70°-80°	1813.2	5.4
80°-90°	1052.4	3.1
90°-100°	778.0	2.3
100°-110°	773.7	2.3
110°-120°	756.4	2.2
120°-130°	662.2	2.0
130°-140°	520.8	1.5
140°-150°	379.1	1.1
150°-160°	251.4	0.7
160°-170°	125.6	0.4
170°-180°	31.0	0.1
0°-30°	7516.0	22.2
0°-40°	12750.8	37.7
0°-60°	23525.4	69.5
0°-90°	29570.8	87.4
90°-120°	2308.1	6.8
90°-150°	3870.2	11.4
90°-180°	4278.0	12.6
0°-180°	33849.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8942	8942	8942	8942	8942	
5°	8937	8935	8944	8935	8951	852
15°	8953	8970	8994	8962	8940	2541
25°	8872	8926	9016	8928	8935	4086
35°	8254	8335	8324	8371	8370	5182
45°	7468	7530	7632	7580	7564	5727
55°	5553	5583	5583	5572	5559	4946
65°	3128	3158	3163	3167	3143	3159
75°	1671	1678	1693	1682	1676	1803
85°	931	944	945	938	940	828
90°	762	764	767	764	762	421
95°	696	696	701	698	698	572
105°	729	731	732	732	732	771
115°	762	764	764	767	767	754
125°	736	738	740	742	744	660
135°	670	672	670	672	674	520
145°	602	602	600	600	602	379
155°	547	547	538	543	547	252
165°	439	439	437	435	437	126
175°	303	303	301	301	303	31
180°	305	305	305	305	305	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8942.3	8942.3	8942.3	8942.3	8942.3
2.5°	8944.1	8958.8	8960.6	8949.6	8949.6
5°	8936.8	8934.9	8944.1	8934.9	8951.4
7.5°	8909.2	8911.1	8938.6	8922.1	8920.2
10°	8929.4	8911.1	8936.8	8914.7	8914.7
12.5°	8927.6	8923.9	8953.3	8927.6	8909.2
15°	8953.3	8969.8	8993.7	8962.5	8940.4
17.5°	8990.0	9010.2	9054.3	8995.5	8977.1
20°	9004.7	9013.9	9100.1	9013.9	9030.4
22.5°	8988.2	9001.0	9107.5	9001.0	9023.0
25°	8872.5	8925.7	9015.7	8927.6	8934.9
27.5°	8725.6	8815.6	8867.0	8824.8	8795.4
30°	8560.4	8679.7	8652.2	8701.8	8633.8
32.5°	8397.0	8512.7	8465.0	8538.4	8472.3
35°	8253.8	8334.6	8323.6	8371.3	8369.5
37.5°	8127.2	8174.9	8211.6	8231.8	8235.5
40°	7961.9	8028.0	8084.9	8072.1	8088.6
42.5°	7756.3	7827.9	7901.4	7862.8	7859.1
45°	7468.1	7530.5	7631.5	7580.1	7563.6
47.5°	7099.1	7216.6	7286.4	7231.3	7183.6
50°	6693.4	6752.1	6812.7	6781.5	6744.8
52.5°	6162.8	6166.5	6239.9	6197.7	6168.3
55°	5553.3	5582.7	5582.7	5571.7	5558.9
57.5°	4936.5	4958.5	4973.2	4956.7	4936.5
60°	4286.6	4310.5	4328.9	4321.5	4262.8
62.5°	3679.0	3702.8	3713.9	3691.8	3697.3
65°	3128.2	3157.6	3163.1	3166.8	3142.9
67.5°	2676.6	2698.7	2711.5	2700.5	2698.7
70°	2304.0	2309.5	2313.1	2320.5	2294.8
72.5°	1966.2	1968.0	1977.2	1979.0	1964.3
75°	1670.6	1677.9	1692.6	1681.6	1676.1
77.5°	1426.4	1437.4	1444.8	1448.5	1441.1
80°	1239.2	1241.0	1250.2	1242.8	1235.5
82.5°	1075.8	1075.8	1081.3	1081.3	1077.6
85°	930.8	943.6	945.4	938.1	939.9
87.5°	833.5	839.0	840.8	837.1	835.3
90°	761.9	763.7	767.4	763.7	761.9
92.5°	716.0	719.6	721.5	719.6	721.5
95°	695.8	695.8	701.3	697.6	697.6
97.5°	695.8	695.8	701.3	699.4	697.6
100°	705.0	706.8	708.6	708.6	708.6
102.5°	716.0	717.8	719.6	719.6	719.6
105°	728.8	730.7	732.5	732.5	732.5
107.5°	741.7	743.5	745.3	745.3	745.3
110°	754.5	752.7	756.4	756.4	758.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	760.0	761.9	761.9	763.7	765.5
115°	761.9	763.7	763.7	767.4	767.4
117.5°	761.9	761.9	763.7	765.5	767.4
120°	754.5	756.4	758.2	760.0	761.9
122.5°	749.0	749.0	750.8	752.7	754.5
125°	736.2	738.0	739.8	741.7	743.5
127.5°	723.3	723.3	725.1	727.0	728.8
130°	708.6	708.6	710.5	712.3	714.1
132.5°	688.4	690.3	690.3	692.1	693.9
135°	670.1	671.9	670.1	671.9	673.7
137.5°	651.7	651.7	649.9	651.7	653.6
140°	631.5	633.4	631.5	633.4	633.4
142.5°	615.0	618.7	616.8	616.8	618.7
145°	602.1	602.1	600.3	600.3	602.1
147.5°	587.5	589.3	587.5	587.5	587.5
150°	572.8	574.6	570.9	572.8	572.8
152.5°	561.8	563.6	554.4	561.8	561.8
155°	547.1	547.1	537.9	543.4	547.1
157.5°	526.9	525.0	519.5	525.0	523.2
160°	501.2	503.0	497.5	499.3	497.5
162.5°	468.1	471.8	470.0	470.0	468.1
165°	438.8	438.8	436.9	435.1	436.9
167.5°	405.7	405.7	403.9	405.7	403.9
170°	365.3	369.0	367.2	369.0	365.3
172.5°	324.9	323.1	323.1	323.1	323.1
175°	302.9	302.9	301.1	301.1	302.9
177.5°	301.1	301.1	302.9	299.2	299.2
180°	304.7	304.7	304.7	304.7	304.7

(END OF REPORT)