

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: P231443

Luminaire Tested: **SSLED-LD5-36-W-UNV-L835-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: P231443
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-L835-CD2-U-FRR22-CLCDL22
Description: STEELER WHITE 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: 31649.0 lumens
Efficiency: N/A
Efficacy: 94.8 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

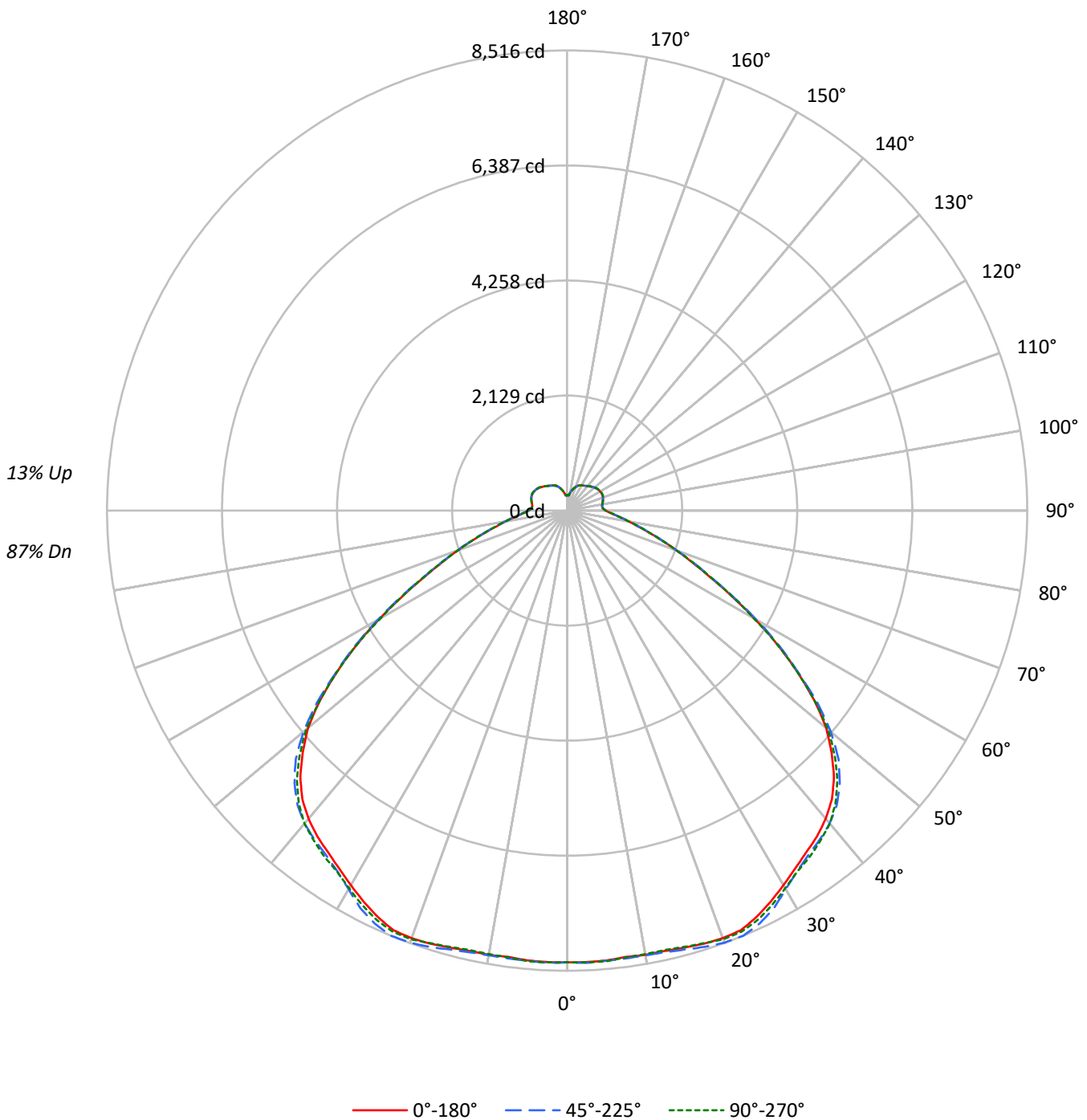
Input Watts (W): 333.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	41252	41252	41252
5°	38390	38422	38454
10°	36148	36177	36088
15°	34517	34672	34467
20°	33378	33732	33474
25°	31902	32417	32127
30°	30107	30430	30366
35°	28621	28863	29022
40°	27432	27856	27868
45°	25761	26325	26091
50°	23295	23710	23473
55°	19651	19755	19671
60°	15548	15701	15461
65°	11729	11860	11784
70°	9011	9047	8975
75°	6883	6973	6906
80°	5437	5485	5421
85°	4404	4473	4447



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	797.1	2.5
10°-20°	2379.8	7.5
20°-30°	3850.6	12.2
30°-40°	4894.5	15.5
40°-50°	5426.0	17.1
50°-60°	4648.4	14.7
60°-70°	2973.0	9.4
70°-80°	1695.4	5.4
80°-90°	984.0	3.1
90°-100°	727.4	2.3
100°-110°	723.5	2.3
110°-120°	707.2	2.2
120°-130°	619.2	2.0
130°-140°	486.9	1.5
140°-150°	354.4	1.1
150°-160°	235.1	0.7
160°-170°	117.4	0.4
170°-180°	28.9	0.1
0°-30°	7027.5	22.2
0°-40°	11922.0	37.7
0°-60°	21996.4	69.5
0°-90°	27648.9	87.4
90°-120°	2158.1	6.8
90°-150°	3618.7	11.4
90°-180°	4000.0	12.6
0°-180°	31649.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8361	8361	8361	8361	8361	
5°	8356	8354	8363	8354	8370	797
15°	8371	8387	8409	8380	8359	2376
25°	8296	8346	8430	8347	8354	3821
35°	7717	7793	7783	7827	7826	4845
45°	6983	7041	7136	7087	7072	5355
55°	5192	5220	5220	5210	5198	4624
65°	2925	2952	2958	2961	2939	2953
75°	1562	1569	1583	1572	1567	1686
85°	870	882	884	877	879	774
90°	712	714	718	714	712	394
95°	651	651	656	652	652	535
105°	682	683	685	685	685	721
115°	712	714	714	718	718	705
125°	688	690	692	694	695	617
135°	626	628	626	628	630	486
145°	563	563	561	561	563	354
155°	512	512	503	508	512	236
165°	410	410	408	407	408	117
175°	283	283	282	282	283	29
180°	285	285	285	285	285	



TEST NUMBER: P231443

CATALOG NUMBER: SSLED-LD5-36-W-UNV-L835-CD2-U-FRR22-CLCDL22

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8361.1	8361.1	8361.1	8361.1	8361.1
2.5°	8362.8	8376.5	8378.2	8367.9	8367.9
5°	8355.9	8354.2	8362.8	8354.2	8369.7
7.5°	8330.2	8331.9	8357.6	8342.2	8340.5
10°	8349.1	8331.9	8355.9	8335.3	8335.3
12.5°	8347.3	8343.9	8371.4	8347.3	8330.2
15°	8371.4	8386.8	8409.1	8380.0	8359.4
17.5°	8405.7	8424.6	8465.8	8410.8	8393.7
20°	8419.4	8428.0	8508.7	8428.0	8443.5
22.5°	8404.0	8416.0	8515.6	8416.0	8436.6
25°	8295.8	8345.6	8429.7	8347.3	8354.2
27.5°	8158.5	8242.6	8290.7	8251.2	8223.7
30°	8004.0	8115.6	8089.9	8136.2	8072.7
32.5°	7851.3	7959.4	7914.8	7983.4	7921.6
35°	7717.4	7792.9	7782.6	7827.2	7825.5
37.5°	7598.9	7643.6	7677.9	7696.8	7700.2
40°	7444.5	7506.3	7559.5	7547.4	7562.9
42.5°	7252.2	7319.2	7387.8	7351.8	7348.3
45°	6982.7	7041.1	7135.5	7087.4	7072.0
47.5°	6637.7	6747.6	6812.8	6761.3	6716.7
50°	6258.4	6313.3	6369.9	6340.7	6306.4
52.5°	5762.3	5765.7	5834.4	5794.9	5767.4
55°	5192.4	5219.9	5219.9	5209.6	5197.6
57.5°	4615.7	4636.3	4650.0	4634.5	4615.7
60°	4008.0	4030.3	4047.5	4040.6	3985.7
62.5°	3439.9	3462.2	3472.5	3451.9	3457.0
65°	2924.9	2952.4	2957.5	2961.0	2938.6
67.5°	2502.7	2523.3	2535.3	2525.0	2523.3
70°	2154.2	2159.4	2162.8	2169.7	2145.6
72.5°	1838.4	1840.1	1848.7	1850.4	1836.7
75°	1562.0	1568.9	1582.6	1572.3	1567.2
77.5°	1333.7	1344.0	1350.9	1354.3	1347.5
80°	1158.6	1160.4	1168.9	1162.1	1155.2
82.5°	1005.9	1005.9	1011.0	1011.0	1007.6
85°	870.3	882.3	884.0	877.1	878.8
87.5°	779.3	784.4	786.2	782.7	781.0
90°	712.3	714.1	717.5	714.1	712.3
92.5°	669.4	672.9	674.6	672.9	674.6
95°	650.6	650.6	655.7	652.3	652.3
97.5°	650.6	650.6	655.7	654.0	652.3
100°	659.1	660.9	662.6	662.6	662.6
102.5°	669.4	671.2	672.9	672.9	672.9
105°	681.5	683.2	684.9	684.9	684.9
107.5°	693.5	695.2	696.9	696.9	696.9
110°	705.5	703.8	707.2	707.2	708.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	710.6	712.3	712.3	714.1	715.8
115°	712.3	714.1	714.1	717.5	717.5
117.5°	712.3	712.3	714.1	715.8	717.5
120°	705.5	707.2	708.9	710.6	712.3
122.5°	700.3	700.3	702.0	703.8	705.5
125°	688.3	690.0	691.7	693.5	695.2
127.5°	676.3	676.3	678.0	679.7	681.5
130°	662.6	662.6	664.3	666.0	667.7
132.5°	643.7	645.4	645.4	647.1	648.8
135°	626.5	628.2	626.5	628.2	630.0
137.5°	609.4	609.4	607.6	609.4	611.1
140°	590.5	592.2	590.5	592.2	592.2
142.5°	575.0	578.5	576.7	576.7	578.5
145°	563.0	563.0	561.3	561.3	563.0
147.5°	549.3	551.0	549.3	549.3	549.3
150°	535.5	537.3	533.8	535.5	535.5
152.5°	525.2	527.0	518.4	525.2	525.2
155°	511.5	511.5	502.9	508.1	511.5
157.5°	492.6	490.9	485.8	490.9	489.2
160°	468.6	470.3	465.2	466.9	465.2
162.5°	437.7	441.1	439.4	439.4	437.7
165°	410.2	410.2	408.5	406.8	408.5
167.5°	379.3	379.3	377.6	379.3	377.6
170°	341.6	345.0	343.3	345.0	341.6
172.5°	303.8	302.1	302.1	302.1	302.1
175°	283.2	283.2	281.5	281.5	283.2
177.5°	281.5	281.5	283.2	279.8	279.8
180°	284.9	284.9	284.9	284.9	284.9

(END OF REPORT)