

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: P231428

Luminaire Tested: **SSLED-LD5-12-W-UNV-L835-CD1-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: P231428
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-LD5-12-W-UNV-L835-CD1-U-FRR22-CLCDL22
Description: STEELER WHITE REFRACTOR LENS AND CONICAL DROP
Light Source: (240) 3500 CCT, 80 CRI LEDS
Ballast/Driver: (1) ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10985.0 lumens
Efficiency: N/A
Efficacy: 128.8 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

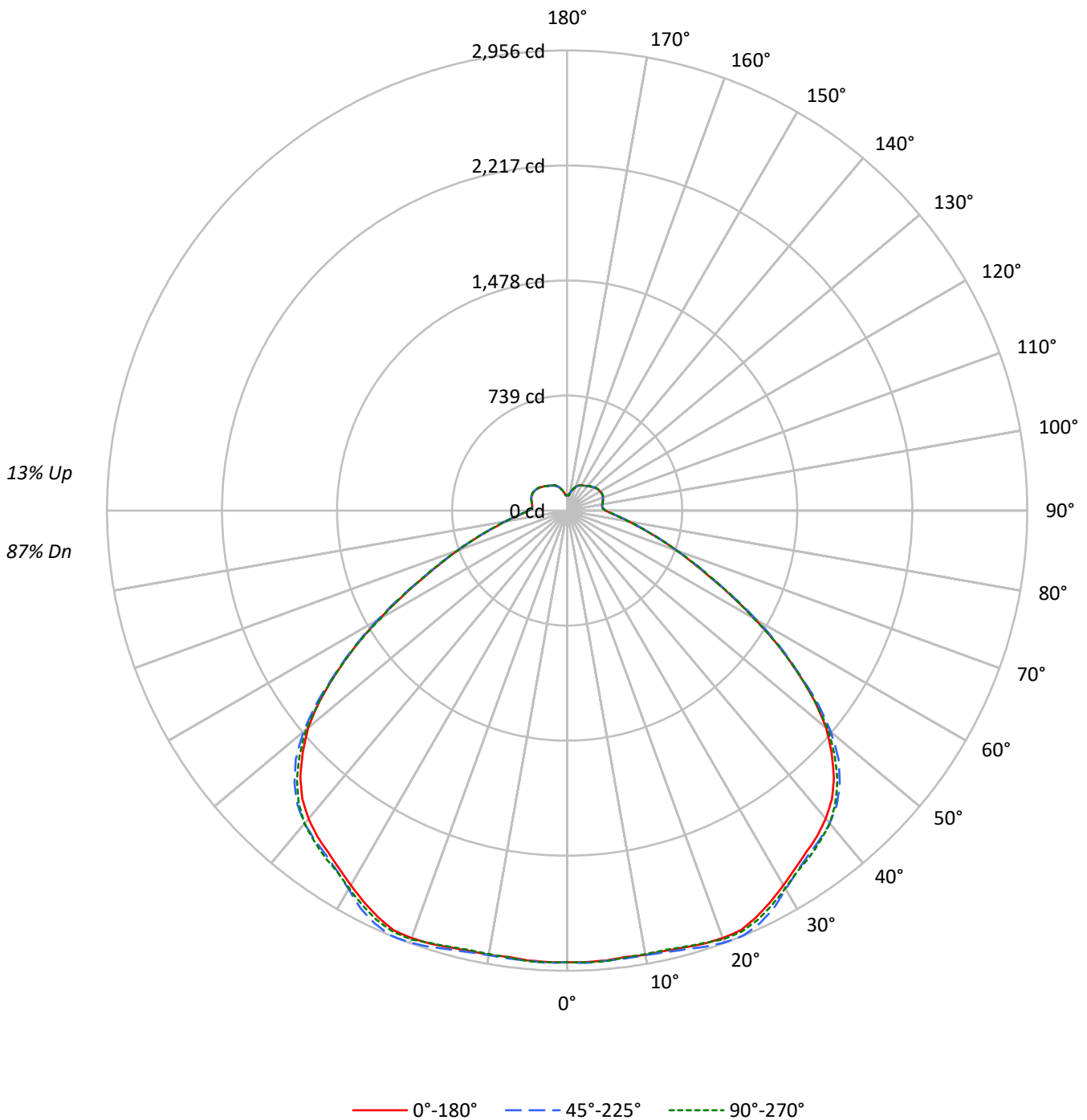
Input Watts (W): 85.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	14318	14318	14318
5°	13325	13336	13347
10°	12547	12556	12526
15°	11980	12034	11963
20°	11585	11708	11618
25°	11073	11252	11151
30°	10450	10562	10539
35°	9934	10018	10073
40°	9521	9668	9673
45°	8941	9137	9056
50°	8085	8229	8147
55°	6821	6857	6827
60°	5396	5450	5366
65°	4071	4116	4090
70°	3128	3140	3115
75°	2389	2420	2397
80°	1887	1904	1882
85°	1529	1552	1543



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.7	2.5
10°-20°	826.0	7.5
20°-30°	1336.5	12.2
30°-40°	1698.8	15.5
40°-50°	1883.3	17.1
50°-60°	1613.4	14.7
60°-70°	1031.9	9.4
70°-80°	588.4	5.4
80°-90°	341.5	3.1
90°-100°	252.5	2.3
100°-110°	251.1	2.3
110°-120°	245.5	2.2
120°-130°	214.9	2.0
130°-140°	169.0	1.5
140°-150°	123.0	1.1
150°-160°	81.6	0.7
160°-170°	40.8	0.4
170°-180°	10.0	0.1
0°-30°	2439.2	22.2
0°-40°	4138.0	37.7
0°-60°	7634.7	69.5
0°-90°	9596.6	87.4
90°-120°	749.0	6.8
90°-150°	1256.0	11.4
90°-180°	1388.0	12.6
0°-180°	10985.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2902	2902	2902	2902	2902	
5°	2900	2900	2903	2900	2905	277
15°	2906	2911	2919	2909	2901	825
25°	2879	2897	2926	2897	2900	1326
35°	2679	2705	2701	2717	2716	1682
45°	2424	2444	2477	2460	2455	1859
55°	1802	1812	1812	1808	1804	1605
65°	1015	1025	1026	1028	1020	1025
75°	542	544	549	546	544	585
85°	302	306	307	304	305	269
90°	247	248	249	248	247	137
95°	226	226	228	226	226	186
105°	236	237	238	238	238	250
115°	247	248	248	249	249	245
125°	239	240	240	241	241	214
135°	218	218	218	218	219	169
145°	195	195	195	195	195	123
155°	178	178	175	176	178	82
165°	142	142	142	141	142	41
175°	98	98	98	98	98	10
180°	99	99	99	99	99	



TEST NUMBER: P231428

CATALOG NUMBER: SSLED-LD5-12-W-UNV-L835-CD1-U-FRR22-CLCDL22

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2902.0	2902.0	2902.0	2902.0	2902.0
2.5°	2902.6	2907.4	2908.0	2904.4	2904.4
5°	2900.2	2899.6	2902.6	2899.6	2905.0
7.5°	2891.3	2891.9	2900.8	2895.5	2894.9
10°	2897.9	2891.9	2900.2	2893.1	2893.1
12.5°	2897.3	2896.1	2905.6	2897.3	2891.3
15°	2905.6	2911.0	2918.7	2908.6	2901.4
17.5°	2917.5	2924.1	2938.4	2919.3	2913.3
20°	2922.3	2925.3	2953.3	2925.3	2930.6
22.5°	2916.9	2921.1	2955.6	2921.1	2928.2
25°	2879.4	2896.7	2925.9	2897.3	2899.6
27.5°	2831.7	2860.9	2877.6	2863.9	2854.4
30°	2778.1	2816.8	2807.9	2824.0	2801.9
32.5°	2725.1	2762.6	2747.1	2771.0	2749.5
35°	2678.6	2704.8	2701.3	2716.7	2716.1
37.5°	2637.5	2653.0	2664.9	2671.5	2672.7
40°	2583.9	2605.3	2623.8	2619.6	2625.0
42.5°	2517.2	2540.4	2564.2	2551.7	2550.5
45°	2423.6	2443.9	2476.6	2460.0	2454.6
47.5°	2303.9	2342.0	2364.6	2346.8	2331.3
50°	2172.2	2191.3	2210.9	2200.8	2188.9
52.5°	2000.0	2001.2	2025.0	2011.3	2001.8
55°	1802.2	1811.8	1811.8	1808.2	1804.0
57.5°	1602.0	1609.2	1614.0	1608.6	1602.0
60°	1391.1	1398.9	1404.8	1402.5	1383.4
62.5°	1193.9	1201.7	1205.3	1198.1	1199.9
65°	1015.2	1024.7	1026.5	1027.7	1020.0
67.5°	868.6	875.8	880.0	876.4	875.8
70°	747.7	749.5	750.7	753.1	744.7
72.5°	638.1	638.7	641.7	642.2	637.5
75°	542.2	544.5	549.3	545.7	543.9
77.5°	462.9	466.5	468.9	470.1	467.7
80°	402.1	402.7	405.7	403.3	401.0
82.5°	349.1	349.1	350.9	350.9	349.7
85°	302.1	306.2	306.8	304.4	305.0
87.5°	270.5	272.3	272.9	271.7	271.1
90°	247.2	247.8	249.0	247.8	247.2
92.5°	232.4	233.5	234.1	233.5	234.1
95°	225.8	225.8	227.6	226.4	226.4
97.5°	225.8	225.8	227.6	227.0	226.4
100°	228.8	229.4	230.0	230.0	230.0
102.5°	232.4	232.9	233.5	233.5	233.5
105°	236.5	237.1	237.7	237.7	237.7
107.5°	240.7	241.3	241.9	241.9	241.9
110°	244.9	244.3	245.5	245.5	246.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	246.7	247.2	247.2	247.8	248.4
115°	247.2	247.8	247.8	249.0	249.0
117.5°	247.2	247.2	247.8	248.4	249.0
120°	244.9	245.5	246.1	246.7	247.2
122.5°	243.1	243.1	243.7	244.3	244.9
125°	238.9	239.5	240.1	240.7	241.3
127.5°	234.7	234.7	235.3	235.9	236.5
130°	230.0	230.0	230.6	231.2	231.8
132.5°	223.4	224.0	224.0	224.6	225.2
135°	217.5	218.1	217.5	218.1	218.7
137.5°	211.5	211.5	210.9	211.5	212.1
140°	204.9	205.5	204.9	205.5	205.5
142.5°	199.6	200.8	200.2	200.2	200.8
145°	195.4	195.4	194.8	194.8	195.4
147.5°	190.6	191.2	190.6	190.6	190.6
150°	185.9	186.5	185.3	185.9	185.9
152.5°	182.3	182.9	179.9	182.3	182.3
155°	177.5	177.5	174.6	176.3	177.5
157.5°	171.0	170.4	168.6	170.4	169.8
160°	162.6	163.2	161.5	162.1	161.5
162.5°	151.9	153.1	152.5	152.5	151.9
165°	142.4	142.4	141.8	141.2	141.8
167.5°	131.7	131.7	131.1	131.7	131.1
170°	118.6	119.8	119.2	119.8	118.6
172.5°	105.5	104.9	104.9	104.9	104.9
175°	98.3	98.3	97.7	97.7	98.3
177.5°	97.7	97.7	98.3	97.1	97.1
180°	98.9	98.9	98.9	98.9	98.9

(END OF REPORT)