

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: P231434

Luminaire Tested: **SSLED-LD5-18-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: P231434
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-LD5-18-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: 15998.0 lumens
Efficiency: N/A
Efficacy: 119.6 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

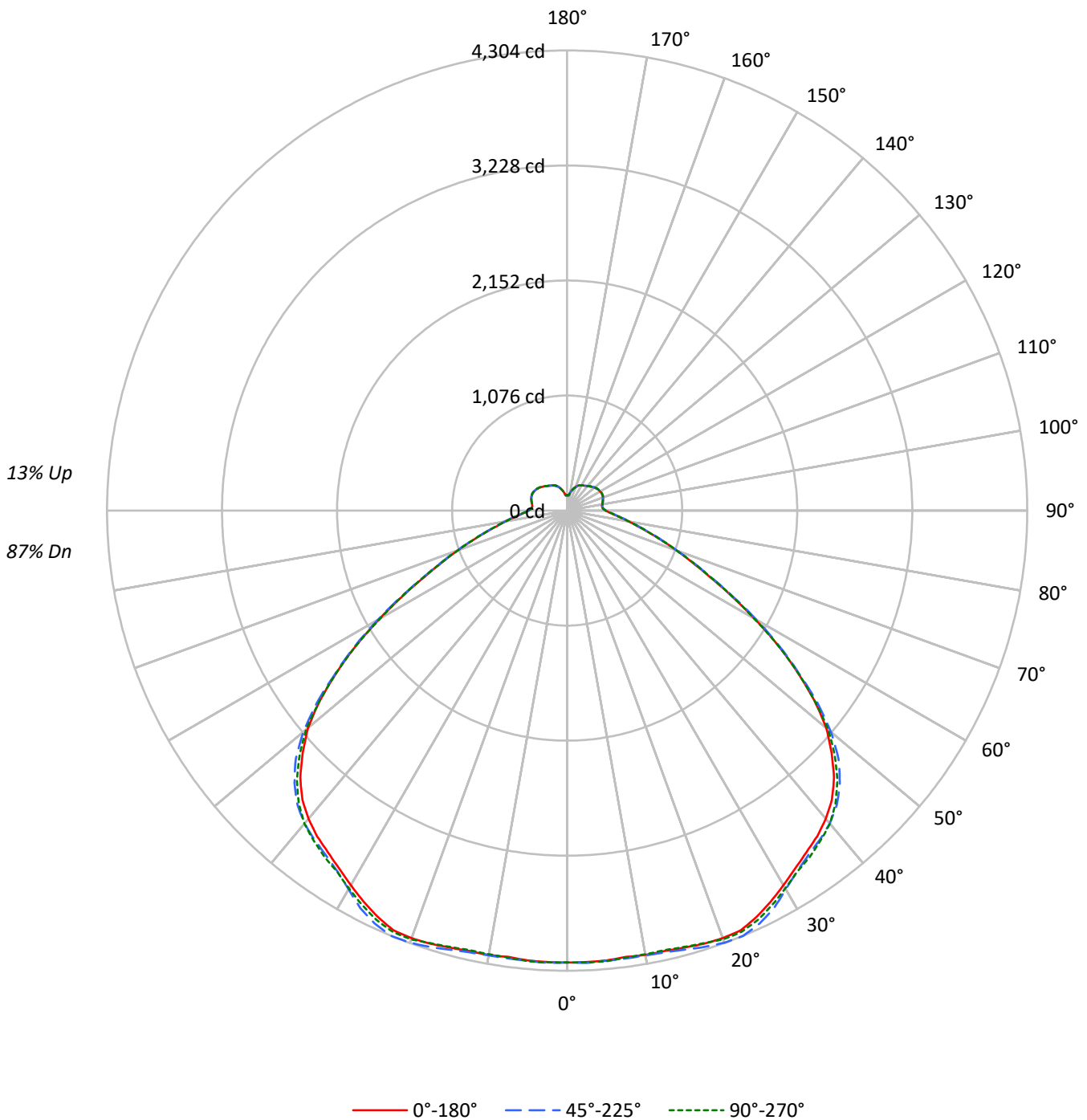
Input Watts (W): 133.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	20852	20852	20852
5°	19406	19421	19438
10°	18272	18287	18242
15°	17448	17526	17423
20°	16872	17051	16920
25°	16126	16387	16240
30°	15219	15382	15349
35°	14467	14590	14670
40°	13866	14081	14087
45°	13022	13307	13189
50°	11775	11985	11865
55°	9933	9986	9943
60°	7859	7936	7815
65°	5929	5995	5956
70°	4555	4573	4537
75°	3479	3525	3491
80°	2749	2773	2740
85°	2226	2261	2248



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	402.9	2.5
10°-20°	1202.9	7.5
20°-30°	1946.4	12.2
30°-40°	2474.1	15.5
40°-50°	2742.7	17.1
50°-60°	2349.7	14.7
60°-70°	1502.8	9.4
70°-80°	857.0	5.4
80°-90°	497.4	3.1
90°-100°	367.7	2.3
100°-110°	365.7	2.3
110°-120°	357.5	2.2
120°-130°	313.0	2.0
130°-140°	246.1	1.5
140°-150°	179.2	1.1
150°-160°	118.8	0.7
160°-170°	59.4	0.4
170°-180°	14.6	0.1
0°-30°	3552.3	22.2
0°-40°	6026.4	37.7
0°-60°	11118.8	69.5
0°-90°	13976.0	87.4
90°-120°	1090.9	6.8
90°-150°	1829.2	11.4
90°-180°	2022.0	12.6
0°-180°	15998.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4226	4226	4226	4226	4226	
5°	4224	4223	4227	4223	4231	403
15°	4232	4239	4251	4236	4226	1201
25°	4193	4219	4261	4219	4223	1931
35°	3901	3939	3934	3956	3956	2449
45°	3530	3559	3607	3583	3575	2707
55°	2625	2639	2639	2633	2627	2337
65°	1478	1492	1495	1497	1485	1493
75°	790	793	800	795	792	852
85°	440	446	447	443	444	391
90°	360	361	363	361	360	199
95°	329	329	331	330	330	271
105°	344	345	346	346	346	364
115°	360	361	361	363	363	356
125°	348	349	350	350	351	312
135°	317	318	317	318	318	246
145°	285	285	284	284	285	179
155°	259	259	254	257	259	119
165°	207	207	206	206	206	59
175°	143	143	142	142	143	15
180°	144	144	144	144	144	



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CATALOG NUMBER: SSLED-LD5-18-W-UNV-L835-CD1-U-FRR22-CLCDL22

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4226.4	4226.4	4226.4	4226.4	4226.4
2.5°	4227.2	4234.2	4235.0	4229.8	4229.8
5°	4223.8	4222.9	4227.2	4222.9	4230.7
7.5°	4210.8	4211.6	4224.6	4216.8	4216.0
10°	4220.3	4211.6	4223.8	4213.4	4213.4
12.5°	4219.4	4217.7	4231.6	4219.4	4210.8
15°	4231.6	4239.4	4250.7	4235.9	4225.5
17.5°	4248.9	4258.5	4279.3	4251.5	4242.9
20°	4255.9	4260.2	4301.0	4260.2	4268.0
22.5°	4248.1	4254.1	4304.5	4254.1	4264.5
25°	4193.4	4218.6	4261.1	4219.4	4222.9
27.5°	4124.0	4166.5	4190.8	4170.8	4157.0
30°	4045.9	4102.3	4089.3	4112.7	4080.6
32.5°	3968.7	4023.3	4000.8	4035.5	4004.2
35°	3901.0	3939.2	3934.0	3956.5	3955.7
37.5°	3841.1	3863.7	3881.0	3890.6	3892.3
40°	3763.0	3794.3	3821.2	3815.1	3822.9
42.5°	3665.9	3699.7	3734.4	3716.2	3714.5
45°	3529.6	3559.1	3606.9	3582.6	3574.8
47.5°	3355.2	3410.8	3443.7	3417.7	3395.2
50°	3163.5	3191.3	3219.9	3205.1	3187.8
52.5°	2912.7	2914.5	2949.2	2929.2	2915.3
55°	2624.7	2638.6	2638.6	2633.3	2627.3
57.5°	2333.1	2343.5	2350.5	2342.7	2333.1
60°	2026.0	2037.3	2045.9	2042.5	2014.7
62.5°	1738.8	1750.1	1755.3	1744.9	1747.5
65°	1478.5	1492.4	1495.0	1496.7	1485.4
67.5°	1265.0	1275.5	1281.5	1276.3	1275.5
70°	1088.9	1091.5	1093.3	1096.7	1084.6
72.5°	929.3	930.1	934.5	935.3	928.4
75°	789.6	793.0	800.0	794.8	792.2
77.5°	674.2	679.4	682.8	684.6	681.1
80°	585.7	586.5	590.9	587.4	583.9
82.5°	508.4	508.4	511.1	511.1	509.3
85°	439.9	446.0	446.8	443.4	444.2
87.5°	393.9	396.5	397.4	395.7	394.8
90°	360.1	360.9	362.7	360.9	360.1
92.5°	338.4	340.1	341.0	340.1	341.0
95°	328.8	328.8	331.4	329.7	329.7
97.5°	328.8	328.8	331.4	330.6	329.7
100°	333.2	334.0	334.9	334.9	334.9
102.5°	338.4	339.3	340.1	340.1	340.1
105°	344.5	345.3	346.2	346.2	346.2
107.5°	350.5	351.4	352.3	352.3	352.3
110°	356.6	355.7	357.5	357.5	358.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	359.2	360.1	360.1	360.9	361.8
115°	360.1	360.9	360.9	362.7	362.7
117.5°	360.1	360.1	360.9	361.8	362.7
120°	356.6	357.5	358.3	359.2	360.1
122.5°	354.0	354.0	354.9	355.7	356.6
125°	347.9	348.8	349.7	350.5	351.4
127.5°	341.9	341.9	342.7	343.6	344.5
130°	334.9	334.9	335.8	336.7	337.5
132.5°	325.4	326.2	326.2	327.1	328.0
135°	316.7	317.6	316.7	317.6	318.4
137.5°	308.0	308.0	307.2	308.0	308.9
140°	298.5	299.3	298.5	299.3	299.3
142.5°	290.7	292.4	291.5	291.5	292.4
145°	284.6	284.6	283.7	283.7	284.6
147.5°	277.7	278.5	277.7	277.7	277.7
150°	270.7	271.6	269.8	270.7	270.7
152.5°	265.5	266.4	262.0	265.5	265.5
155°	258.6	258.6	254.2	256.8	258.6
157.5°	249.0	248.2	245.5	248.2	247.3
160°	236.9	237.7	235.1	236.0	235.1
162.5°	221.3	223.0	222.1	222.1	221.3
165°	207.4	207.4	206.5	205.6	206.5
167.5°	191.8	191.8	190.9	191.8	190.9
170°	172.7	174.4	173.5	174.4	172.7
172.5°	153.6	152.7	152.7	152.7	152.7
175°	143.2	143.2	142.3	142.3	143.2
177.5°	142.3	142.3	143.2	141.4	141.4
180°	144.0	144.0	144.0	144.0	144.0

(END OF REPORT)