

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: P231503

Luminaire Tested: **SSLED-LD5-30-W-UNV-L835-CD2-U-CLR22-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: P231503
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1708-240-6)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: SSLED-LD5-30-W-UNV-L835-CD2-U-CLR22-CLCDL22
Description: STEELER CLEAR 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: 26660.0 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Spacing Criteria (0/90/45): 1.63 / 1.67 / 1.65
Luminous Opening: Vertical Cylinder (Dia: 1.67' x H: 1.17')
CIE Type: Direct

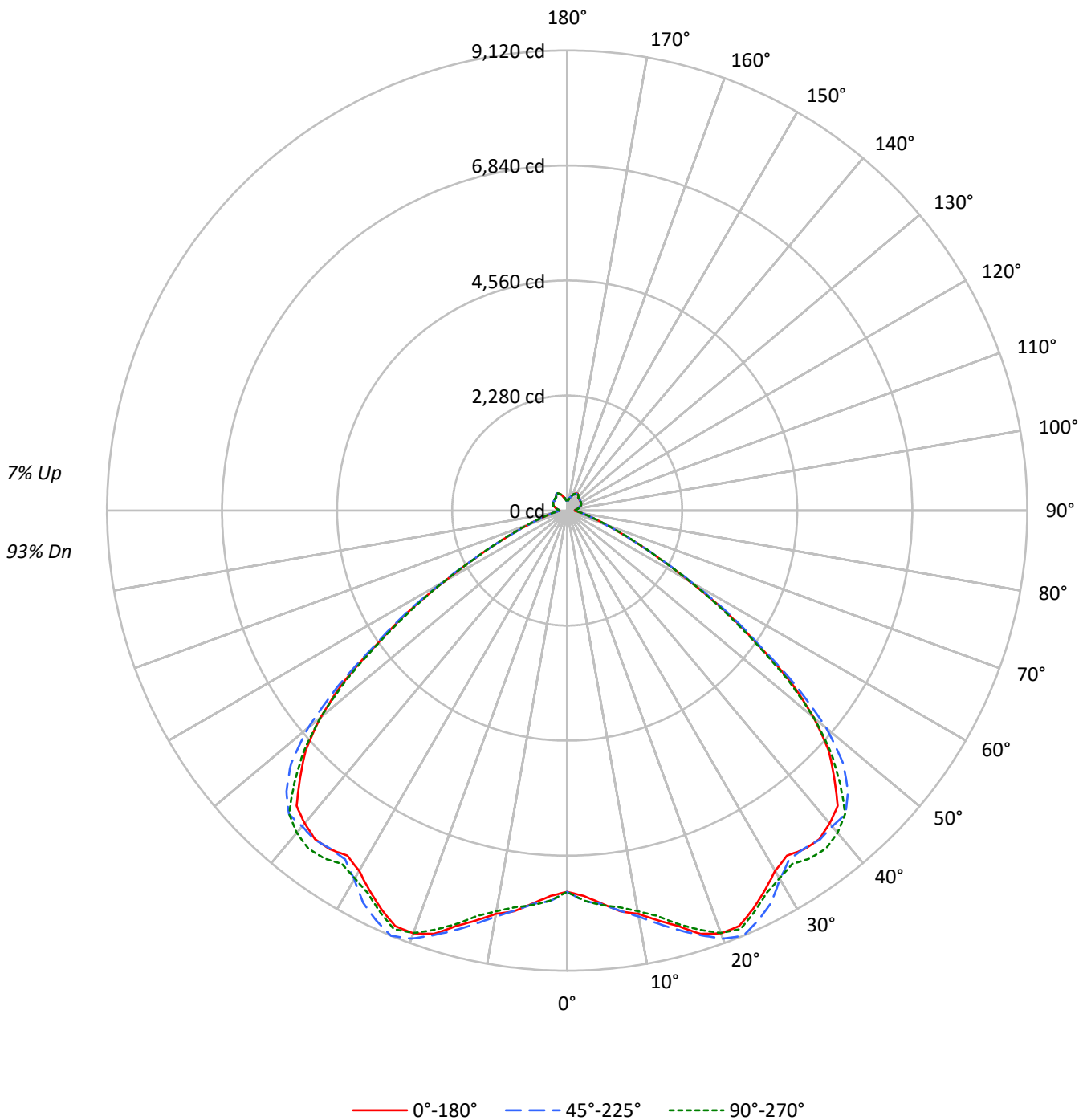
Input Watts (W): 266.35
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93				
1	109	105	101	98	105	102	98	95	96	94	91	91	89	87	87	85	84	81				
2	100	93	87	82	97	90	85	80	86	81	77	82	78	75	78	75	72	70				
3	92	82	75	69	89	80	73	68	76	71	66	73	68	64	69	65	62	60				
4	84	73	65	59	81	71	64	58	68	62	57	65	60	55	62	58	54	52				
5	78	66	57	51	75	64	56	50	61	54	49	59	53	48	56	51	47	45				
6	72	59	51	44	69	58	50	44	55	48	43	53	47	42	51	46	41	39				
7	66	53	45	39	64	52	44	39	50	43	38	48	42	37	46	41	37	35				
8	62	49	40	35	60	48	40	34	46	39	34	44	38	33	42	37	33	31				
9	57	44	36	31	56	44	36	31	42	35	30	40	34	30	39	33	29	28				
10	54	41	33	28	52	40	33	28	39	32	27	37	31	27	36	30	27	25				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	37272	37272	37272
5°	35897	35958	36053
10°	35133	35369	34898
15°	35157	35503	34969
20°	35343	35786	35314
25°	33514	34465	33752
30°	31011	31730	31658
35°	30390	30335	31191
40°	29821	30097	30715
45°	27620	29026	28223
50°	23743	24953	23754
55°	17327	17571	17115
60°	10849	11123	10940
65°	6112	6106	6230
70°	3397	3335	3550
75°	2029	2048	2081
80°	1422	1408	1415
85°	975	983	975



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	756.0	2.8
10°-20°	2429.5	9.1
20°-30°	4044.2	15.2
30°-40°	5202.4	19.5
40°-50°	5877.9	22.0
50°-60°	4174.5	15.7
60°-70°	1610.1	6.0
70°-80°	529.5	2.0
80°-90°	225.4	0.8
90°-100°	192.9	0.7
100°-110°	262.5	1.0
110°-120°	301.8	1.1
120°-130°	287.4	1.1
130°-140°	257.4	1.0
140°-150°	234.5	0.9
150°-160°	169.7	0.6
160°-170°	83.2	0.3
170°-180°	21.1	0.1
0°-30°	7229.8	27.1
0°-40°	12432.1	46.6
0°-60°	22484.5	84.3
0°-90°	24849.5	93.2
90°-120°	757.2	2.8
90°-150°	1536.6	5.8
90°-180°	1811.0	6.8
0°-180°	26660.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7554	7554	7554	7554	7554	
5°	7813	7809	7826	7791	7847	756
15°	8527	8565	8611	8538	8481	2433
25°	8715	8671	8962	8736	8777	4004
35°	8194	8199	8180	8336	8410	5132
45°	7487	7603	7868	7720	7650	5730
55°	4578	4694	4643	4636	4522	4118
65°	1524	1499	1523	1524	1554	1598
75°	460	471	465	468	472	529
85°	193	194	194	194	193	181
90°	152	153	153	154	153	85
95°	168	168	169	171	172	148
105°	252	249	241	246	244	264
115°	306	304	304	308	309	301
125°	319	319	322	321	322	286
135°	331	330	331	335	338	256
145°	380	380	380	382	384	234
155°	368	366	354	365	365	171
165°	280	285	284	282	277	82
175°	203	200	200	200	200	21
180°	219	219	219	219	219	



TEST NUMBER: P231503

CATALOG NUMBER: SSLED-LD5-30-W-UNV-L835-CD2-U-CLR22-CLCDL22

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7554.3	7554.3	7554.3	7554.3	7554.3
2.5°	7645.5	7733.8	7745.6	7680.8	7738.2
5°	7813.2	7808.8	7826.5	7791.2	7847.1
7.5°	8008.9	7982.4	7995.7	7951.5	7928.0
10°	8114.8	8108.9	8169.2	8106.0	8060.4
12.5°	8317.8	8306.1	8388.4	8294.3	8226.6
15°	8526.7	8565.0	8610.6	8538.5	8481.1
17.5°	8796.0	8710.6	8823.9	8700.3	8707.7
20°	8915.1	8796.0	9026.9	8813.6	8907.8
22.5°	8913.6	8846.0	9119.6	8791.5	8976.9
25°	8715.0	8670.9	8962.2	8735.6	8776.8
27.5°	8484.1	8567.9	8757.7	8644.4	8550.3
30°	8244.3	8506.1	8435.5	8626.8	8416.4
32.5°	8108.9	8360.5	8195.7	8500.3	8304.6
35°	8194.3	8198.7	8179.5	8335.5	8410.5
37.5°	8209.0	8150.1	8223.7	8263.4	8435.5
40°	8092.7	8125.1	8167.8	8264.9	8335.5
42.5°	7936.8	7973.6	8161.9	8092.7	8154.5
45°	7486.6	7602.9	7867.7	7720.5	7649.9
47.5°	7029.1	7304.2	7423.4	7386.6	7089.4
50°	6378.9	6608.4	6704.0	6683.4	6381.8
52.5°	5596.2	5633.0	5725.7	5650.7	5515.3
55°	4578.2	4694.4	4642.9	4635.6	4522.3
57.5°	3735.2	3802.9	3789.7	3770.5	3641.1
60°	2796.6	2849.6	2867.3	2861.4	2820.2
62.5°	2071.4	2081.7	2089.0	2119.9	2064.0
65°	1524.1	1499.1	1522.6	1524.1	1553.5
67.5°	1091.6	1082.8	1096.0	1103.4	1140.1
70°	812.1	801.8	797.4	820.9	848.8
72.5°	622.3	613.5	617.9	628.2	632.6
75°	460.5	470.8	464.9	467.8	472.2
77.5°	366.3	364.8	361.9	363.4	367.8
80°	303.1	300.1	300.1	297.2	301.6
82.5°	241.3	244.2	242.7	244.2	244.2
85°	192.7	194.2	194.2	194.2	192.7
87.5°	161.8	163.3	161.8	164.8	163.3
90°	151.5	153.0	153.0	154.5	153.0
92.5°	154.5	157.4	157.4	160.4	158.9
95°	167.7	167.7	169.2	170.7	172.1
97.5°	191.2	192.7	195.7	197.1	197.1
100°	213.3	216.3	217.7	219.2	222.1
102.5°	226.6	226.6	226.6	229.5	229.5
105°	251.6	248.6	241.3	245.7	244.2
107.5°	269.2	266.3	264.8	269.2	272.2
110°	288.3	285.4	283.9	288.3	291.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	297.2	295.7	295.7	298.6	301.6
115°	306.0	304.5	304.5	307.5	308.9
117.5°	310.4	310.4	313.4	313.4	314.8
120°	311.9	313.4	316.3	316.3	316.3
122.5°	316.3	314.8	319.2	317.8	319.2
125°	319.2	319.2	322.2	320.7	322.2
127.5°	322.2	320.7	323.7	323.7	323.7
130°	325.1	325.1	328.1	328.1	328.1
132.5°	328.1	326.6	329.5	331.0	333.9
135°	331.0	329.5	331.0	335.4	338.4
137.5°	333.9	332.5	332.5	336.9	341.3
140°	338.4	339.8	336.9	341.3	342.8
142.5°	359.0	359.0	354.5	359.0	364.8
145°	379.6	379.6	379.6	382.5	384.0
147.5°	389.9	391.3	392.8	392.8	394.3
150°	392.8	392.8	392.8	392.8	394.3
152.5°	388.4	386.9	378.1	385.4	386.9
155°	367.8	366.3	354.5	364.8	364.8
157.5°	350.1	348.7	336.9	347.2	348.7
160°	336.9	344.2	332.5	342.8	335.4
162.5°	304.5	319.2	311.9	314.8	303.1
165°	279.5	285.4	283.9	282.5	276.6
167.5°	263.3	269.2	266.3	267.7	258.9
170°	247.2	251.6	253.0	248.6	242.7
172.5°	219.2	222.1	226.6	219.2	219.2
175°	203.0	200.1	200.1	200.1	200.1
177.5°	210.4	210.4	211.8	207.4	207.4
180°	219.2	219.2	219.2	219.2	219.2

(END OF REPORT)