

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: P231476

Luminaire Tested: **SSLED-LD5-18-W-UNV-L835-CD1-U-CLR22**

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: P231476  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1708-240-5)  
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-CLR22  
Description: STEELER CLEAR REFRACTOR LENS  
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: 16363.0 lumens  
Efficiency: N/A  
Efficacy: 122.3 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 1.48 / 1.49  
Luminous Opening: Vertical Cylinder (Dia: 1.83' x H: 1')  
CIE Type: Direct

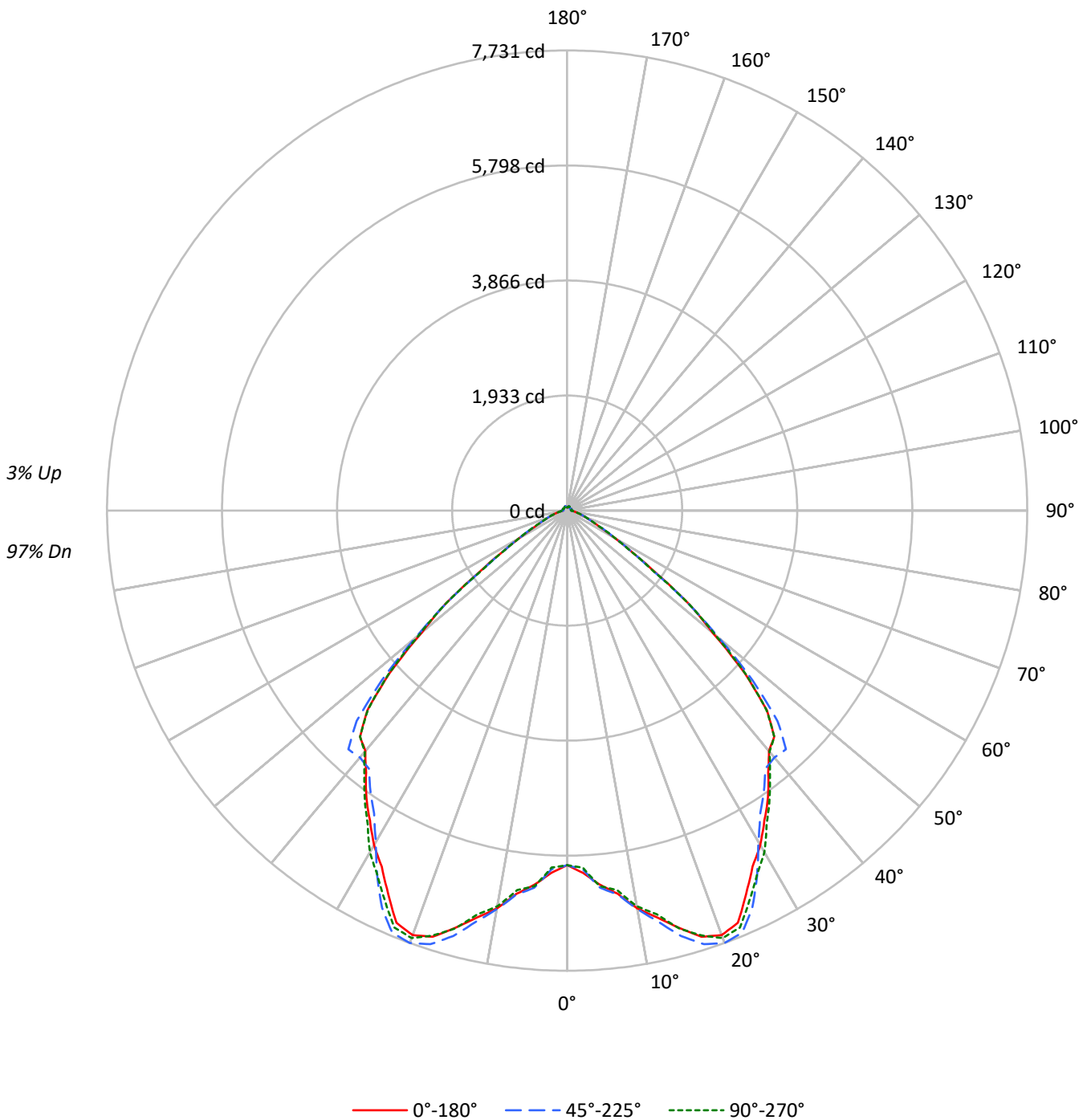
Input Watts (W): 133.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	118	118	118	118	115	115	115	115	110	110	110	104	104	104	100	100	100	97
1	111	107	103	100	108	104	101	99	100	97	95	95	94	92	92	90	89	86
2	103	96	91	86	100	94	89	85	90	86	82	87	83	80	83	81	78	76
3	95	86	80	74	93	85	78	73	81	76	72	78	74	70	76	72	69	67
4	88	78	70	65	86	76	70	64	74	68	63	71	66	62	69	65	61	59
5	82	71	63	57	80	69	62	57	67	61	56	65	59	55	63	58	54	52
6	76	64	56	51	74	63	56	50	61	55	50	59	54	49	58	53	49	47
7	71	59	51	45	69	58	50	45	56	49	45	54	49	44	53	48	44	42
8	66	54	46	41	64	53	46	41	52	45	40	50	44	40	49	43	39	38
9	62	50	42	37	60	49	42	37	48	41	36	46	40	36	45	40	36	34
10	58	46	38	34	57	45	38	33	44	38	33	43	37	33	42	37	33	31

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	24294	24294	24294
5°	24336	24547	24443
10°	25021	25079	24900
15°	25828	26331	25856
20°	26287	26777	26467
25°	24161	25020	24604
30°	21806	21593	22275
35°	19708	19304	19856
40°	17732	18220	17793
45°	16148	17013	16119
50°	11088	11558	11260
55°	6401	6184	6246
60°	3456	3517	3462
65°	1988	2072	2018
70°	1359	1394	1394
75°	963	978	967
80°	718	726	714
85°	513	518	509



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	614.6	3.8
10°-20°	2083.9	12.7
20°-30°	3342.5	20.4
30°-40°	3675.5	22.5
40°-50°	3576.7	21.9
50°-60°	1714.9	10.5
60°-70°	560.7	3.4
70°-80°	244.4	1.5
80°-90°	112.9	0.7
90°-100°	76.9	0.5
100°-110°	78.1	0.5
110°-120°	70.6	0.4
120°-130°	56.3	0.3
130°-140°	49.6	0.3
140°-150°	45.6	0.3
150°-160°	35.4	0.2
160°-170°	19.2	0.1
170°-180°	5.3	0.0
0°-30°	6041.0	36.9
0°-40°	9716.5	59.4
0°-60°	15008.0	91.7
0°-90°	15926.0	97.3
90°-120°	225.5	1.4
90°-150°	377.0	2.3
90°-180°	437.0	2.7
0°-180°	16363.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5958	5958	5958	5958	5958	
5°	6307	6303	6362	6337	6335	615
15°	7257	7338	7398	7312	7265	2065
25°	7110	7358	7362	7442	7240	3268
35°	5884	5758	5764	5815	5929	3673
45°	4745	4685	4999	4690	4736	3496
55°	1793	1802	1733	1786	1750	1708
65°	513	522	534	532	521	549
75°	220	221	223	221	220	242
85°	98	98	99	99	97	92
90°	68	70	70	71	69	38
95°	65	64	65	67	68	56
105°	80	73	73	69	76	79
115°	68	73	72	72	70	70
125°	60	60	60	61	62	56
135°	64	63	62	63	65	50
145°	73	72	73	73	75	46
155°	77	77	77	77	76	35
165°	68	68	68	67	66	19
175°	54	54	53	53	54	5
180°	55	55	55	55	55	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5958.1	5958.1	5958.1	5958.1	5958.1
2.5°	6090.9	6059.6	6030.1	6008.4	6003.2
5°	6306.9	6302.6	6361.6	6337.3	6334.7
7.5°	6493.5	6504.7	6502.1	6470.9	6430.1
10°	6783.2	6785.9	6798.9	6781.5	6750.3
12.5°	7003.6	7103.4	7073.0	7041.8	6944.6
15°	7257.0	7337.7	7398.4	7312.5	7264.8
17.5°	7506.9	7592.8	7637.9	7616.2	7482.6
20°	7589.3	7722.9	7730.7	7751.5	7641.4
22.5°	7496.5	7649.2	7677.8	7717.7	7581.5
25°	7109.5	7357.6	7362.0	7441.8	7239.6
27.5°	6745.1	6954.2	6909.9	7058.3	6904.7
30°	6488.3	6524.7	6424.9	6612.3	6627.9
32.5°	6169.0	6078.7	6035.3	6123.8	6239.2
35°	5884.4	5757.7	5763.8	5815.0	5928.6
37.5°	5551.2	5639.7	5467.9	5710.8	5596.3
40°	5272.7	5443.6	5417.6	5485.3	5290.9
42.5°	5149.5	5133.0	5441.9	5143.4	5150.3
45°	4745.2	4685.3	4999.4	4690.5	4736.5
47.5°	4045.8	4241.0	4229.8	4299.2	4071.0
50°	3194.7	3394.2	3330.0	3477.5	3244.1
52.5°	2579.5	2493.6	2562.2	2520.5	2579.5
55°	1793.4	1802.1	1732.7	1786.5	1750.0
57.5°	1272.0	1300.6	1275.4	1273.7	1260.7
60°	933.6	937.1	950.1	947.5	935.3
62.5°	682.8	689.8	704.5	703.7	695.9
65°	512.8	522.3	534.5	531.9	520.6
67.5°	400.0	410.4	413.0	414.7	416.5
70°	331.4	334.9	340.1	340.1	340.1
72.5°	275.9	280.2	281.1	282.0	280.2
75°	219.5	221.2	223.0	221.2	220.4
77.5°	181.3	181.3	180.5	179.6	180.5
80°	151.0	151.8	152.7	151.0	150.1
82.5°	123.2	124.1	124.9	124.1	124.1
85°	98.0	98.0	98.9	98.9	97.2
87.5°	80.7	80.7	80.7	81.6	80.7
90°	68.5	70.3	70.3	71.1	69.4
92.5°	61.6	63.3	63.3	65.1	63.3
95°	65.1	64.2	65.1	66.8	67.7
97.5°	72.9	74.6	77.2	79.8	77.2
100°	76.4	82.4	84.2	84.2	79.0
102.5°	74.6	73.7	77.2	75.5	78.1
105°	79.8	72.9	72.9	69.4	75.5
107.5°	70.3	73.7	62.5	73.7	69.4
110°	71.1	69.4	68.5	71.1	72.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	72.9	66.8	72.0	66.8	72.9
115°	68.5	72.9	72.0	72.0	70.3
117.5°	71.1	72.9	74.6	75.5	71.1
120°	69.4	66.8	69.4	71.1	71.1
122.5°	62.5	61.6	62.5	64.2	67.7
125°	59.9	59.9	59.9	60.7	62.5
127.5°	60.7	60.7	59.9	60.7	61.6
130°	63.3	62.5	63.3	63.3	64.2
132.5°	64.2	63.3	61.6	63.3	65.9
135°	64.2	63.3	61.6	63.3	65.1
137.5°	65.1	64.2	64.2	64.2	65.9
140°	66.8	67.7	67.7	67.7	67.7
142.5°	70.3	70.3	70.3	70.3	72.0
145°	72.9	72.0	72.9	72.9	74.6
147.5°	75.5	74.6	75.5	75.5	76.4
150°	77.2	76.4	77.2	77.2	77.2
152.5°	78.1	77.2	78.1	78.1	78.1
155°	77.2	77.2	77.2	77.2	76.4
157.5°	75.5	75.5	75.5	75.5	74.6
160°	73.7	74.6	73.7	73.7	72.9
162.5°	71.1	71.1	71.1	70.3	70.3
165°	68.5	67.7	67.7	66.8	65.9
167.5°	65.1	64.2	63.3	63.3	62.5
170°	59.9	59.9	59.9	59.0	59.0
172.5°	54.7	53.8	53.8	53.8	52.9
175°	53.8	53.8	52.9	52.9	53.8
177.5°	53.8	53.8	54.7	53.8	53.8
180°	54.7	54.7	54.7	54.7	54.7

(END OF REPORT)