

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: P231482

Luminaire Tested: **SSLED-LD5-30-W-UNV-L835-CD2-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: P231482  
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-LD5-30-W-UNV-L835-CD2-U-CLR22  
Description: STEELER CLEAR REFRACTOR LENS  
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: 27745.0 lumens  
Efficiency: N/A  
Efficacy: 104.2 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

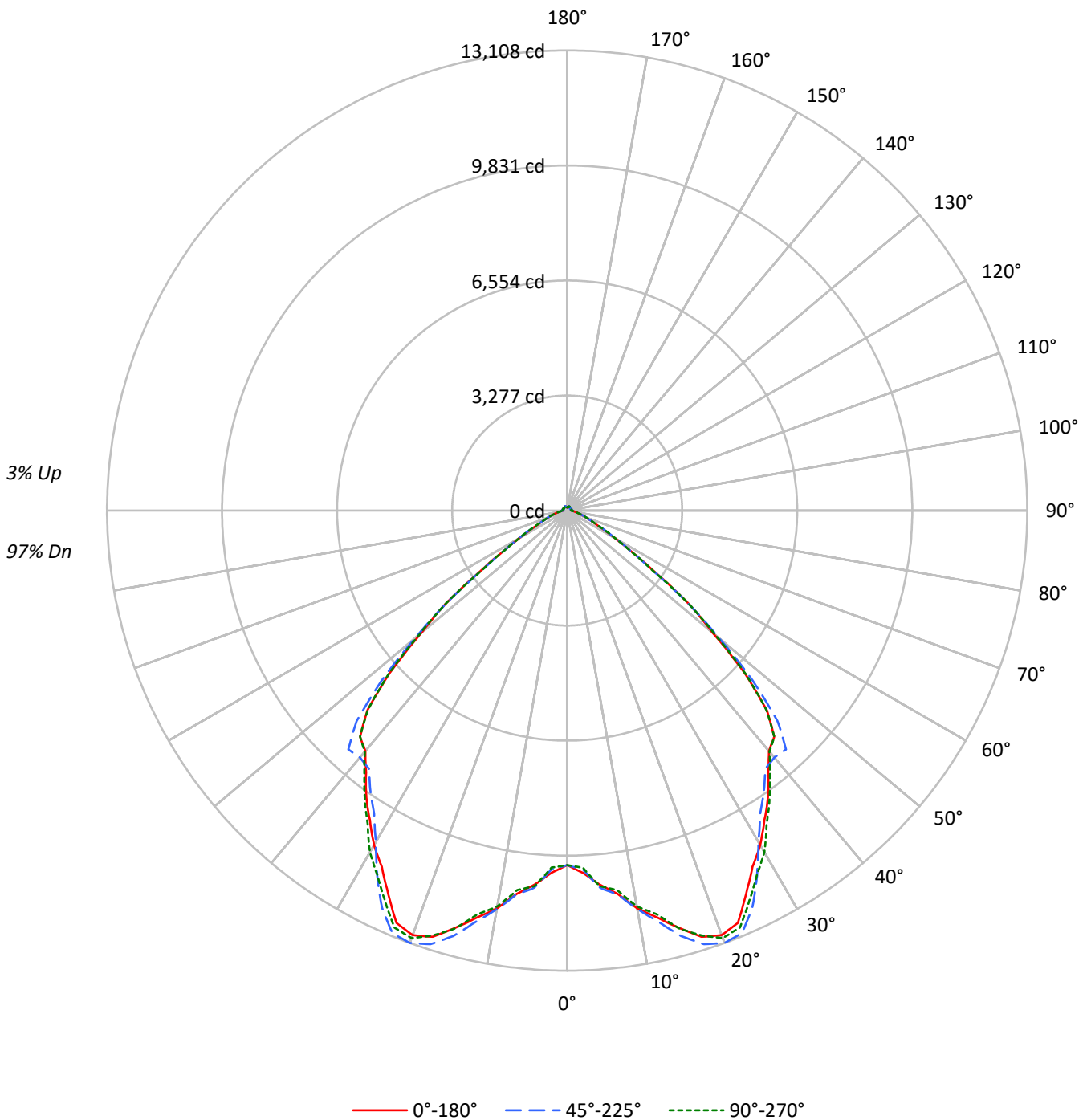
Input Watts (W): 266.35  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	41193	41193	41193
5°	41264	41622	41446
10°	42426	42524	42220
15°	43794	44647	43841
20°	44572	45403	44878
25°	40968	42423	41718
30°	36973	36612	37769
35°	33416	32731	33667
40°	30067	30893	30170
45°	27381	28848	27330
50°	18801	19598	19092
55°	10853	10485	10591
60°	5860	5964	5871
65°	3370	3512	3421
70°	2304	2364	2364
75°	1633	1658	1639
80°	1217	1231	1210
85°	870	878	863



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1042.1	3.8
10°-20°	3533.4	12.7
20°-30°	5667.6	20.4
30°-40°	6232.1	22.5
40°-50°	6064.6	21.9
50°-60°	2907.7	10.5
60°-70°	950.8	3.4
70°-80°	414.4	1.5
80°-90°	191.4	0.7
90°-100°	130.4	0.5
100°-110°	132.4	0.5
110°-120°	119.7	0.4
120°-130°	95.4	0.3
130°-140°	84.2	0.3
140°-150°	77.3	0.3
150°-160°	60.1	0.2
160°-170°	32.6	0.1
170°-180°	8.9	0.0
0°-30°	10243.1	36.9
0°-40°	16475.2	59.4
0°-60°	25447.5	91.7
0°-90°	27004.1	97.3
90°-120°	382.4	1.4
90°-150°	639.3	2.3
90°-180°	741.0	2.7
0°-180°	27745.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	10102	10102	10102	10102	10102	
5°	10694	10687	10787	10746	10741	###
15°	12305	12442	12545	12399	12318	3501
25°	12055	12476	12483	12618	12276	5541
35°	9978	9763	9773	9860	10052	6228
45°	8046	7944	8477	7953	8031	5928
55°	3041	3056	2938	3029	2967	2897
65°	870	886	906	902	883	931
75°	372	375	378	375	374	410
85°	166	166	168	168	165	156
90°	116	119	119	121	118	65
95°	110	109	110	113	115	96
105°	135	124	124	118	128	134
115°	116	124	122	122	119	119
125°	102	102	102	103	106	95
135°	109	107	104	107	110	85
145°	124	122	124	124	126	77
155°	131	131	131	131	130	60
165°	116	115	115	113	112	33
175°	91	91	90	90	91	9
180°	93	93	93	93	93	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	10102.5	10102.5	10102.5	10102.5	10102.5
2.5°	10327.6	10274.7	10224.7	10187.9	10179.0
5°	10694.0	10686.6	10786.6	10745.5	10741.0
7.5°	11010.3	11029.4	11025.0	10972.0	10902.9
10°	11501.6	11506.0	11528.1	11498.7	11445.7
12.5°	11875.3	12044.5	11993.0	11940.0	11775.3
15°	12304.9	12441.7	12544.7	12399.1	12318.1
17.5°	12728.6	12874.2	12950.7	12914.0	12687.4
20°	12868.4	13094.9	13108.2	13143.5	12956.6
22.5°	12710.9	12969.9	13018.4	13086.1	12855.1
25°	12054.8	12475.6	12482.9	12618.3	12275.5
27.5°	11436.9	11791.5	11716.4	11968.0	11707.6
30°	11001.4	11063.2	10894.0	11211.8	11238.3
32.5°	10460.0	10307.0	10233.5	10383.5	10579.2
35°	9977.5	9762.7	9773.0	9859.8	10052.5
37.5°	9412.6	9562.6	9271.3	9683.3	9489.1
40°	8940.3	9230.1	9186.0	9300.8	8971.2
42.5°	8731.4	8703.5	9227.2	8721.1	8732.9
45°	8045.8	7944.3	8476.9	7953.2	8031.1
47.5°	6860.1	7191.1	7172.0	7289.7	6902.7
50°	5416.9	5755.2	5646.4	5896.5	5500.7
52.5°	4373.8	4228.2	4344.4	4273.8	4373.8
55°	3040.9	3055.6	2937.9	3029.1	2967.4
57.5°	2156.7	2205.3	2162.6	2159.7	2137.6
60°	1583.0	1588.9	1610.9	1606.5	1585.9
62.5°	1157.8	1169.6	1194.6	1193.1	1179.9
65°	869.5	885.6	906.2	901.8	882.7
67.5°	678.2	695.9	700.3	703.2	706.2
70°	562.0	567.9	576.7	576.7	576.7
72.5°	467.8	475.2	476.7	478.1	475.2
75°	372.2	375.1	378.1	375.1	373.7
77.5°	307.5	307.5	306.0	304.5	306.0
80°	256.0	257.5	258.9	256.0	254.5
82.5°	208.9	210.4	211.8	210.4	210.4
85°	166.2	166.2	167.7	167.7	164.8
87.5°	136.8	136.8	136.8	138.3	136.8
90°	116.2	119.2	119.2	120.6	117.7
92.5°	104.5	107.4	107.4	110.3	107.4
95°	110.3	108.9	110.3	113.3	114.8
97.5°	123.6	126.5	130.9	135.3	130.9
100°	129.5	139.8	142.7	142.7	133.9
102.5°	126.5	125.0	130.9	128.0	132.4
105°	135.3	123.6	123.6	117.7	128.0
107.5°	119.2	125.0	105.9	125.0	117.7
110°	120.6	117.7	116.2	120.6	122.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	123.6	113.3	122.1	<i>113.3</i>	123.6
115°	116.2	123.6	122.1	<i>122.1</i>	119.2
117.5°	120.6	123.6	126.5	<i>128.0</i>	120.6
120°	117.7	113.3	117.7	<i>120.6</i>	120.6
122.5°	105.9	104.5	105.9	<i>108.9</i>	114.8
125°	101.5	101.5	101.5	<i>103.0</i>	105.9
127.5°	103.0	103.0	101.5	<i>103.0</i>	104.5
130°	107.4	105.9	107.4	<i>107.4</i>	108.9
132.5°	108.9	107.4	104.5	<i>107.4</i>	111.8
135°	108.9	107.4	104.5	<i>107.4</i>	110.3
137.5°	110.3	108.9	108.9	<i>108.9</i>	111.8
140°	113.3	114.8	114.8	<i>114.8</i>	114.8
142.5°	119.2	119.2	119.2	<i>119.2</i>	122.1
145°	123.6	122.1	123.6	<i>123.6</i>	126.5
147.5°	128.0	126.5	128.0	<i>128.0</i>	129.5
150°	130.9	129.5	130.9	<i>130.9</i>	130.9
152.5°	132.4	130.9	132.4	<i>132.4</i>	132.4
155°	130.9	130.9	130.9	<i>130.9</i>	129.5
157.5°	128.0	128.0	128.0	<i>128.0</i>	126.5
160°	125.0	126.5	125.0	<i>125.0</i>	123.6
162.5°	120.6	120.6	120.6	<i>119.2</i>	119.2
165°	116.2	114.8	114.8	<i>113.3</i>	111.8
167.5°	110.3	108.9	107.4	<i>107.4</i>	105.9
170°	101.5	101.5	101.5	<i>100.0</i>	100.0
172.5°	92.7	91.2	91.2	<i>91.2</i>	89.7
175°	91.2	91.2	89.7	<i>89.7</i>	91.2
177.5°	91.2	91.2	92.7	<i>91.2</i>	91.2
180°	92.7	92.7	92.7	<i>92.7</i>	92.7

(END OF REPORT)