

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: P231440

Luminaire Tested: **SSLED-LD5-30-W-UNV-L835-CD2-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: P231440
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-LD5-30-W-UNV-L835-CD2-U-FRR22-CLCDL22
Description: STEELER WHITE 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: 27125.0 lumens
Efficiency: N/A
Efficacy: 101.8 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

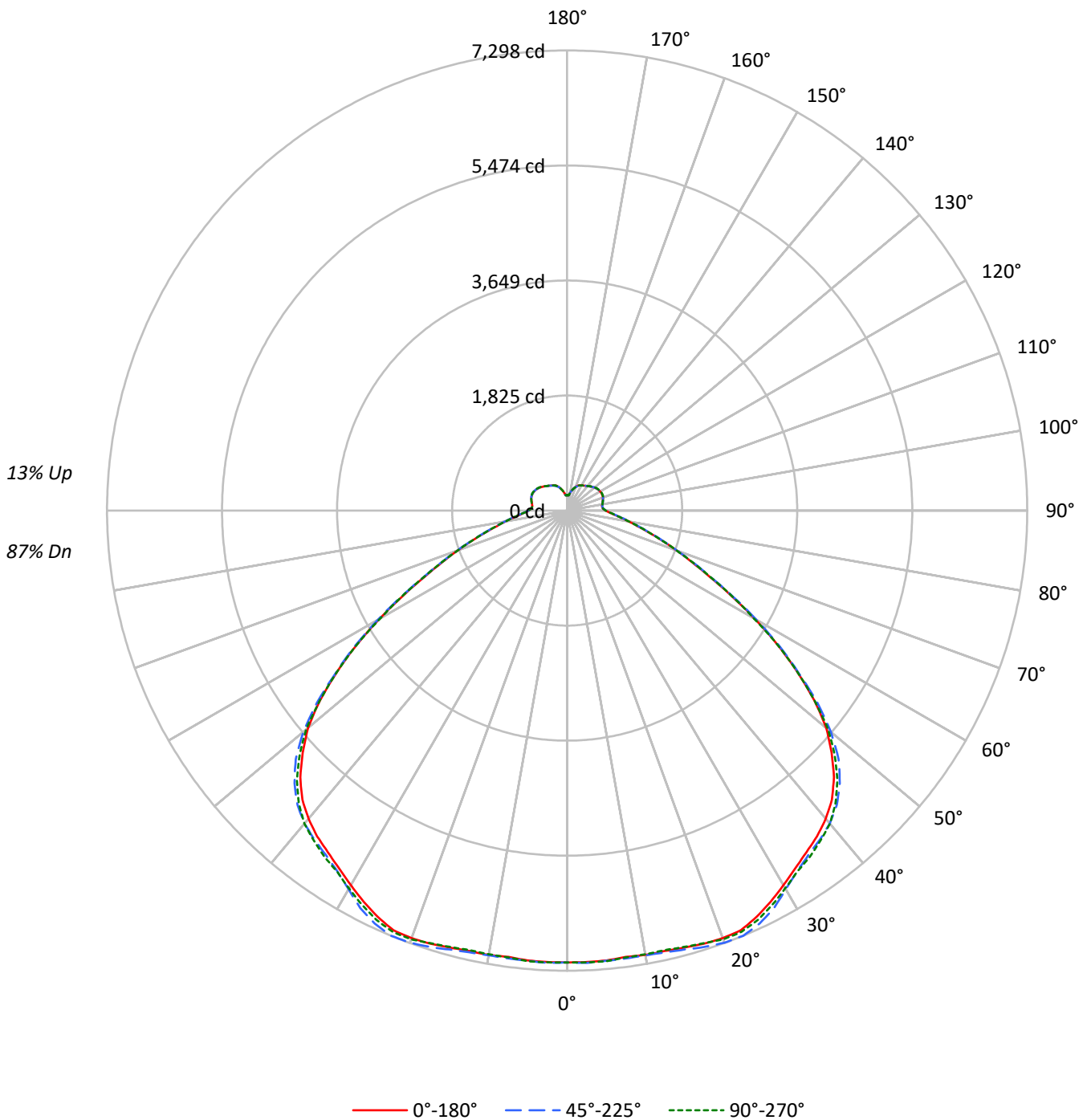
Input Watts (W): 266.35
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	35355	35355	35355
5°	32903	32930	32957
10°	30980	31006	30929
15°	29583	29716	29540
20°	28607	28910	28689
25°	27342	27784	27535
30°	25804	26080	26025
35°	24530	24737	24873
40°	23511	23874	23885
45°	22079	22562	22361
50°	19965	20321	20118
55°	16842	16931	16859
60°	13325	13457	13251
65°	10052	10165	10100
70°	7723	7753	7692
75°	5899	5977	5918
80°	4660	4701	4646
85°	3774	3834	3811



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	683.1	2.5
10°-20°	2039.6	7.5
20°-30°	3300.2	12.2
30°-40°	4194.9	15.5
40°-50°	4650.4	17.1
50°-60°	3983.9	14.7
60°-70°	2548.0	9.4
70°-80°	1453.0	5.4
80°-90°	843.4	3.1
90°-100°	623.4	2.3
100°-110°	620.1	2.3
110°-120°	606.1	2.2
120°-130°	530.7	2.0
130°-140°	417.3	1.5
140°-150°	303.8	1.1
150°-160°	201.5	0.7
160°-170°	100.7	0.4
170°-180°	24.8	0.1
0°-30°	6023.0	22.2
0°-40°	10217.9	37.7
0°-60°	18852.2	69.5
0°-90°	23696.6	87.4
90°-120°	1849.6	6.8
90°-150°	3101.4	11.4
90°-180°	3428.0	12.6
0°-180°	27125.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7166	7166	7166	7166	7166	
5°	7162	7160	7167	7160	7173	683
15°	7175	7188	7207	7182	7164	2036
25°	7110	7153	7225	7154	7160	3275
35°	6614	6679	6670	6708	6707	4152
45°	5985	6035	6116	6074	6061	4590
55°	4450	4474	4474	4465	4455	3963
65°	2507	2530	2535	2538	2519	2531
75°	1339	1345	1356	1348	1343	1445
85°	746	756	758	752	753	664
90°	610	612	615	612	610	337
95°	558	558	562	559	559	459
105°	584	586	587	587	587	618
115°	610	612	612	615	615	604
125°	590	591	593	594	596	529
135°	537	538	537	538	540	417
145°	482	482	481	481	482	303
155°	438	438	431	436	438	202
165°	352	352	350	349	350	101
175°	243	243	241	241	243	25
180°	244	244	244	244	244	



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CATALOG NUMBER: SSLED-LD5-30-W-UNV-L835-CD2-U-FRR22-CLCDL22

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7165.9	7165.9	7165.9	7165.9	7165.9
2.5°	7167.4	7179.2	7180.6	7171.8	7171.8
5°	7161.5	7160.0	7167.4	7160.0	7173.3
7.5°	7139.4	7140.9	7163.0	7149.7	7148.3
10°	7155.6	7140.9	7161.5	7143.8	7143.8
12.5°	7154.1	7151.2	7174.7	7154.1	7139.4
15°	7174.7	7188.0	7207.1	7182.1	7164.4
17.5°	7204.2	7220.3	7255.7	7208.6	7193.9
20°	7215.9	7223.3	7292.4	7223.3	7236.5
22.5°	7202.7	7213.0	7298.3	7213.0	7230.6
25°	7110.0	7152.7	7224.8	7154.1	7160.0
27.5°	6992.3	7064.4	7105.6	7071.8	7048.2
30°	6859.9	6955.5	6933.5	6973.2	6918.8
32.5°	6729.0	6821.7	6783.4	6842.3	6789.3
35°	6614.2	6679.0	6670.1	6708.4	6706.9
37.5°	6512.7	6551.0	6580.4	6596.6	6599.5
40°	6380.3	6433.3	6478.9	6468.6	6481.8
42.5°	6215.6	6272.9	6331.8	6300.9	6297.9
45°	5984.6	6034.6	6115.5	6074.3	6061.1
47.5°	5688.9	5783.0	5838.9	5794.8	5756.6
50°	5363.8	5410.8	5459.4	5434.4	5405.0
52.5°	4938.6	4941.6	5000.4	4966.6	4943.0
55°	4450.2	4473.7	4473.7	4464.9	4454.6
57.5°	3955.9	3973.5	3985.3	3972.1	3955.9
60°	3435.1	3454.2	3468.9	3463.1	3416.0
62.5°	2948.2	2967.3	2976.1	2958.5	2962.9
65°	2506.8	2530.4	2534.8	2537.7	2518.6
67.5°	2144.9	2162.6	2172.9	2164.0	2162.6
70°	1846.3	1850.7	1853.6	1859.5	1838.9
72.5°	1575.6	1577.1	1584.4	1585.9	1574.1
75°	1338.7	1344.6	1356.4	1347.6	1343.1
77.5°	1143.1	1151.9	1157.8	1160.7	1154.8
80°	993.0	994.5	1001.8	996.0	990.1
82.5°	862.1	862.1	866.5	866.5	863.6
85°	745.9	756.2	757.6	751.8	753.2
87.5°	667.9	672.3	673.8	670.8	669.4
90°	610.5	612.0	614.9	612.0	610.5
92.5°	573.7	576.7	578.2	576.7	578.2
95°	557.6	557.6	562.0	559.0	559.0
97.5°	557.6	557.6	562.0	560.5	559.0
100°	564.9	566.4	567.9	567.9	567.9
102.5°	573.7	575.2	576.7	576.7	576.7
105°	584.0	585.5	587.0	587.0	587.0
107.5°	594.3	595.8	597.3	597.3	597.3
110°	604.6	603.2	606.1	606.1	607.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	609.1	610.5	610.5	612.0	613.5
115°	610.5	612.0	612.0	614.9	614.9
117.5°	610.5	610.5	612.0	613.5	614.9
120°	604.6	606.1	607.6	609.1	610.5
122.5°	600.2	600.2	601.7	603.2	604.6
125°	589.9	591.4	592.9	594.3	595.8
127.5°	579.6	579.6	581.1	582.6	584.0
130°	567.9	567.9	569.3	570.8	572.3
132.5°	551.7	553.1	553.1	554.6	556.1
135°	537.0	538.4	537.0	538.4	539.9
137.5°	522.3	522.3	520.8	522.3	523.7
140°	506.1	507.5	506.1	507.5	507.5
142.5°	492.8	495.8	494.3	494.3	495.8
145°	482.5	482.5	481.1	481.1	482.5
147.5°	470.8	472.2	470.8	470.8	470.8
150°	459.0	460.5	457.5	459.0	459.0
152.5°	450.2	451.6	444.3	450.2	450.2
155°	438.4	438.4	431.0	435.5	438.4
157.5°	422.2	420.7	416.3	420.7	419.3
160°	401.6	403.1	398.7	400.1	398.7
162.5°	375.1	378.1	376.6	376.6	375.1
165°	351.6	351.6	350.1	348.7	350.1
167.5°	325.1	325.1	323.7	325.1	323.7
170°	292.8	295.7	294.2	295.7	292.8
172.5°	260.4	258.9	258.9	258.9	258.9
175°	242.7	242.7	241.3	241.3	242.7
177.5°	241.3	241.3	242.7	239.8	239.8
180°	244.2	244.2	244.2	244.2	244.2

(END OF REPORT)