

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: P231419

Luminaire Tested: **SSLED-LD5-30-W-UNV-L835-CD2-U-FRR22**

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: P231419
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1708-240-2)
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
Description: STEELER WHITE 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: 28416.0 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.43 / 1.45
Luminous Opening: Vertical Cylinder (Dia: 1.83' x H: 1')
CIE Type: Direct

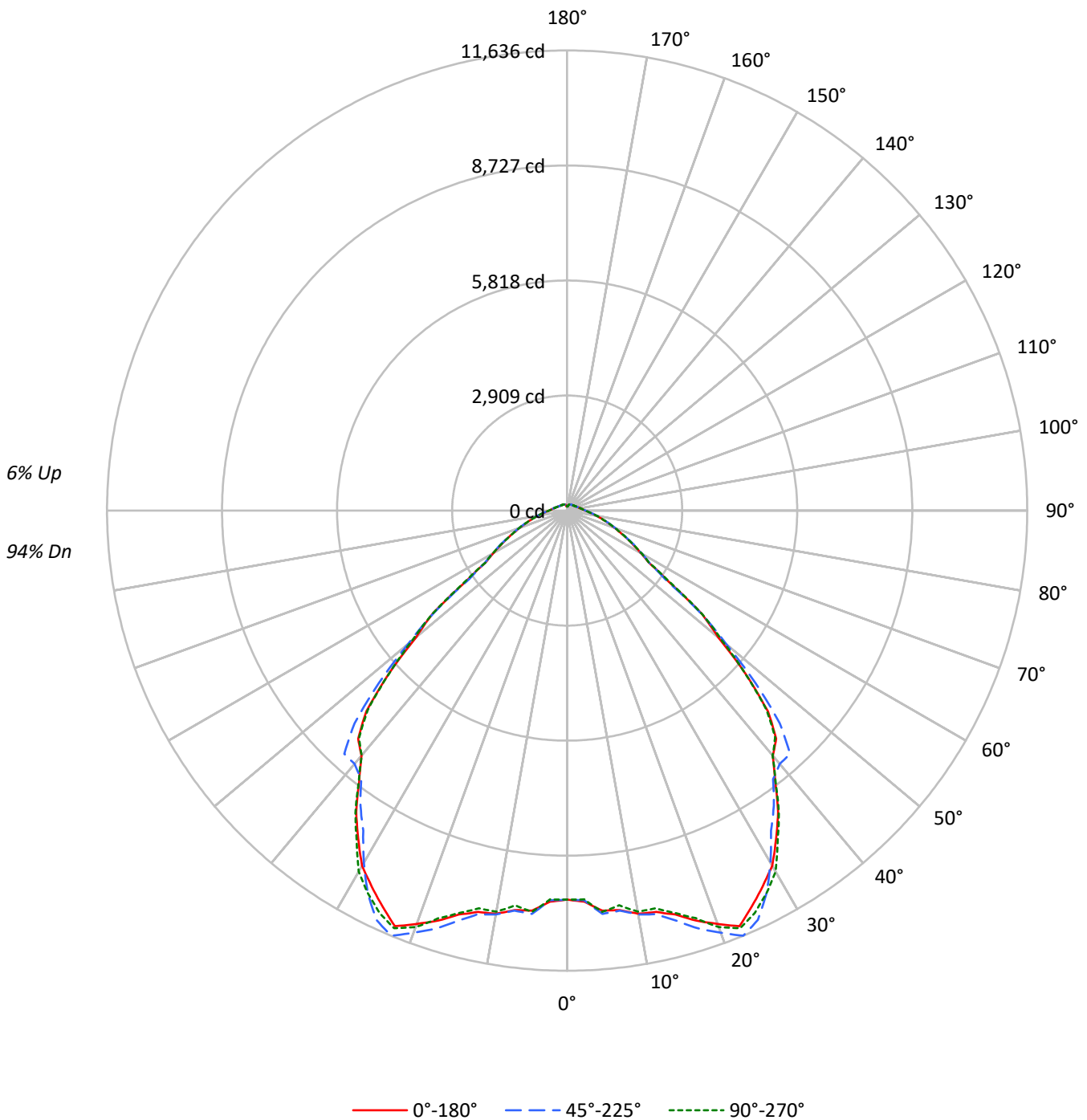
Input Watts (W): 266.35
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0	
RCR																						
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94				
1	109	104	100	97	105	101	98	95	96	93	91	91	89	87	87	85	84	81				
2	100	93	87	81	97	90	85	80	86	81	77	82	78	75	78	75	72	70				
3	92	83	75	69	89	81	74	69	77	71	67	74	69	65	70	66	63	61				
4	85	74	66	60	82	72	65	59	69	63	58	66	61	57	64	59	55	53				
5	79	67	59	53	76	65	58	52	63	56	51	60	55	50	58	53	49	47				
6	73	61	52	46	71	59	52	46	57	50	45	55	49	44	53	48	44	42				
7	68	55	47	41	66	54	47	41	52	45	40	50	44	40	49	43	39	37				
8	63	51	43	37	61	50	42	37	48	41	36	46	40	36	45	39	35	33				
9	59	47	39	34	58	46	38	33	44	38	33	43	37	32	41	36	32	30				
10	55	43	35	31	54	42	35	30	41	34	30	40	34	30	38	33	29	28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	40120	40120	40120
5°	39175	39505	39300
10°	38183	38248	37987
15°	37636	38233	37490
20°	38523	39354	38824
25°	37543	38798	38148
30°	34852	34555	35436
35°	31144	30519	31263
40°	27207	28127	27187
45°	24427	25884	24287
50°	17325	18244	17749
55°	11179	10775	11410
60°	7979	8088	8088
65°	6466	6540	6472
70°	5217	5302	5271
75°	4285	4349	4298
80°	3575	3616	3609
85°	3019	3073	3042



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	970.5	3.4
10°-20°	3056.6	10.8
20°-30°	5170.9	18.2
30°-40°	5781.9	20.3
40°-50°	5464.6	19.2
50°-60°	3003.9	10.6
60°-70°	1681.2	5.9
70°-80°	1057.4	3.7
80°-90°	644.3	2.3
90°-100°	430.1	1.5
100°-110°	320.6	1.1
110°-120°	245.3	0.9
120°-130°	191.5	0.7
130°-140°	150.3	0.5
140°-150°	115.0	0.4
150°-160°	79.9	0.3
160°-170°	41.5	0.1
170°-180°	10.5	0.0
0°-30°	9198.1	32.4
0°-40°	14980.0	52.7
0°-60°	23448.4	82.5
0°-90°	26831.3	94.4
90°-120°	996.1	3.5
90°-150°	1452.8	5.1
90°-180°	1585.0	5.6
0°-180°	28416.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9839	9839	9839	9839	9839	
5°	10153	10170	10238	10172	10185	971
15°	10575	10673	10742	10625	10534	3030
25°	11047	11441	11416	11602	11225	5064
35°	9299	9102	9112	9132	9335	5783
45°	7178	7116	7606	7053	7137	5323
55°	3132	3113	3019	3164	3197	2989
65°	1668	1674	1687	1679	1670	1664
75°	977	984	992	989	980	1047
85°	577	578	587	580	581	507
90°	455	459	462	460	458	251
95°	387	390	393	391	390	307
105°	300	300	302	302	302	319
115°	244	246	246	247	247	244
125°	210	212	212	213	213	190
135°	193	193	193	193	194	150
145°	182	182	182	182	184	115
155°	172	174	172	172	174	80
165°	146	146	144	144	144	42
175°	106	106	104	104	106	11
180°	109	109	109	109	109	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9839.2	9839.2	9839.2	9839.2	9839.2
2.5°	9896.6	9889.2	9862.8	9837.8	9839.2
5°	10152.6	10170.2	10237.9	10171.7	10184.9
7.5°	10187.9	10229.1	10202.6	10146.7	10067.3
10°	10351.2	10365.9	10368.8	10339.4	10298.2
12.5°	10395.3	10530.7	10454.2	10427.7	10304.1
15°	10574.8	10673.4	10742.5	10624.8	10533.6
17.5°	10873.5	11041.2	11085.3	11035.3	10807.3
20°	11122.1	11356.0	11361.9	11384.0	11208.9
22.5°	11376.6	11597.3	11635.5	11676.7	11431.0
25°	11047.1	11441.3	11416.3	11601.7	11225.1
27.5°	10708.7	10992.6	10917.6	11128.0	10910.2
30°	10370.3	10433.6	10282.0	10496.8	10543.9
32.5°	9833.3	9640.6	9597.9	9724.5	9905.4
35°	9299.3	9102.2	9112.5	9131.6	9334.6
37.5°	8638.7	8840.3	8554.9	8894.7	8657.9
40°	8090.0	8400.4	8363.6	8412.2	8084.1
42.5°	7822.2	7807.5	8343.0	7817.8	7785.5
45°	7177.9	7116.1	7606.0	7052.8	7136.7
47.5°	6128.9	6524.7	6464.3	6527.6	6123.0
50°	4991.7	5378.6	5256.5	5474.2	5113.8
52.5°	4295.8	4106.1	4244.3	4164.9	4313.5
55°	3132.1	3113.0	3018.9	3164.5	3196.9
57.5°	2448.0	2461.3	2471.6	2462.7	2456.9
60°	2155.3	2186.2	2184.7	2183.2	2184.7
62.5°	1893.4	1911.1	1930.2	1916.9	1918.4
65°	1668.3	1674.2	1687.4	1678.6	1669.8
67.5°	1450.6	1468.2	1475.6	1477.1	1469.7
70°	1272.6	1285.8	1293.2	1290.2	1285.8
72.5°	1121.0	1128.4	1141.6	1137.2	1128.4
75°	976.9	984.2	991.6	988.6	979.8
77.5°	856.2	862.1	868.0	869.5	863.6
80°	751.8	757.7	760.6	756.2	759.1
82.5°	657.6	663.5	666.4	665.0	663.5
85°	576.7	578.2	587.0	579.6	581.1
87.5°	507.6	509.0	512.0	512.0	509.0
90°	454.6	459.0	461.9	460.5	457.5
92.5°	417.8	422.2	422.2	422.2	420.8
95°	386.9	389.9	392.8	391.3	389.9
97.5°	361.9	363.4	366.3	364.9	363.4
100°	338.4	339.8	342.8	341.3	339.8
102.5°	316.3	319.2	320.7	320.7	319.2
105°	300.1	300.1	301.6	301.6	301.6
107.5°	283.9	283.9	285.4	285.4	285.4
110°	270.7	270.7	270.7	270.7	272.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	256.0	257.5	257.5	257.5	258.9
115°	244.2	245.7	245.7	247.2	247.2
117.5°	233.9	233.9	235.4	235.4	236.9
120°	225.1	226.6	226.6	228.0	228.0
122.5°	217.7	217.7	219.2	219.2	220.7
125°	210.4	211.8	211.8	213.3	213.3
127.5°	204.5	206.0	207.4	207.4	207.4
130°	201.6	203.0	203.0	203.0	204.5
132.5°	197.1	197.1	197.1	198.6	200.1
135°	192.7	192.7	192.7	192.7	194.2
137.5°	188.3	189.8	189.8	189.8	189.8
140°	185.4	186.8	186.8	186.8	186.8
142.5°	183.9	185.4	185.4	185.4	185.4
145°	182.4	182.4	182.4	182.4	183.9
147.5°	181.0	181.0	181.0	181.0	181.0
150°	179.5	179.5	178.0	178.0	179.5
152.5°	176.5	176.5	175.1	176.5	176.5
155°	172.1	173.6	172.1	172.1	173.6
157.5°	169.2	169.2	169.2	169.2	169.2
160°	163.3	163.3	161.8	161.8	163.3
162.5°	154.5	154.5	154.5	154.5	154.5
165°	145.6	145.6	144.2	144.2	144.2
167.5°	135.3	135.3	135.3	135.3	135.3
170°	122.1	123.6	122.1	122.1	122.1
172.5°	107.4	107.4	107.4	107.4	107.4
175°	105.9	105.9	104.5	104.5	105.9
177.5°	105.9	107.4	107.4	107.4	105.9
180°	108.9	108.9	108.9	108.9	108.9

(END OF REPORT)