

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: P231420

Luminaire Tested: **SSLED-LD5-30-W-UNV-L840-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: P231420
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-L840-CD2-U-FRR22
Description: STEELER WHITE REFRACTOR LENS
Light Source: (240) 4000 CCT, 80 CRI LEDS
Ballast/Driver: (2) ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30391.0 lumens
Efficiency: N/A
Efficacy: 114.1 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

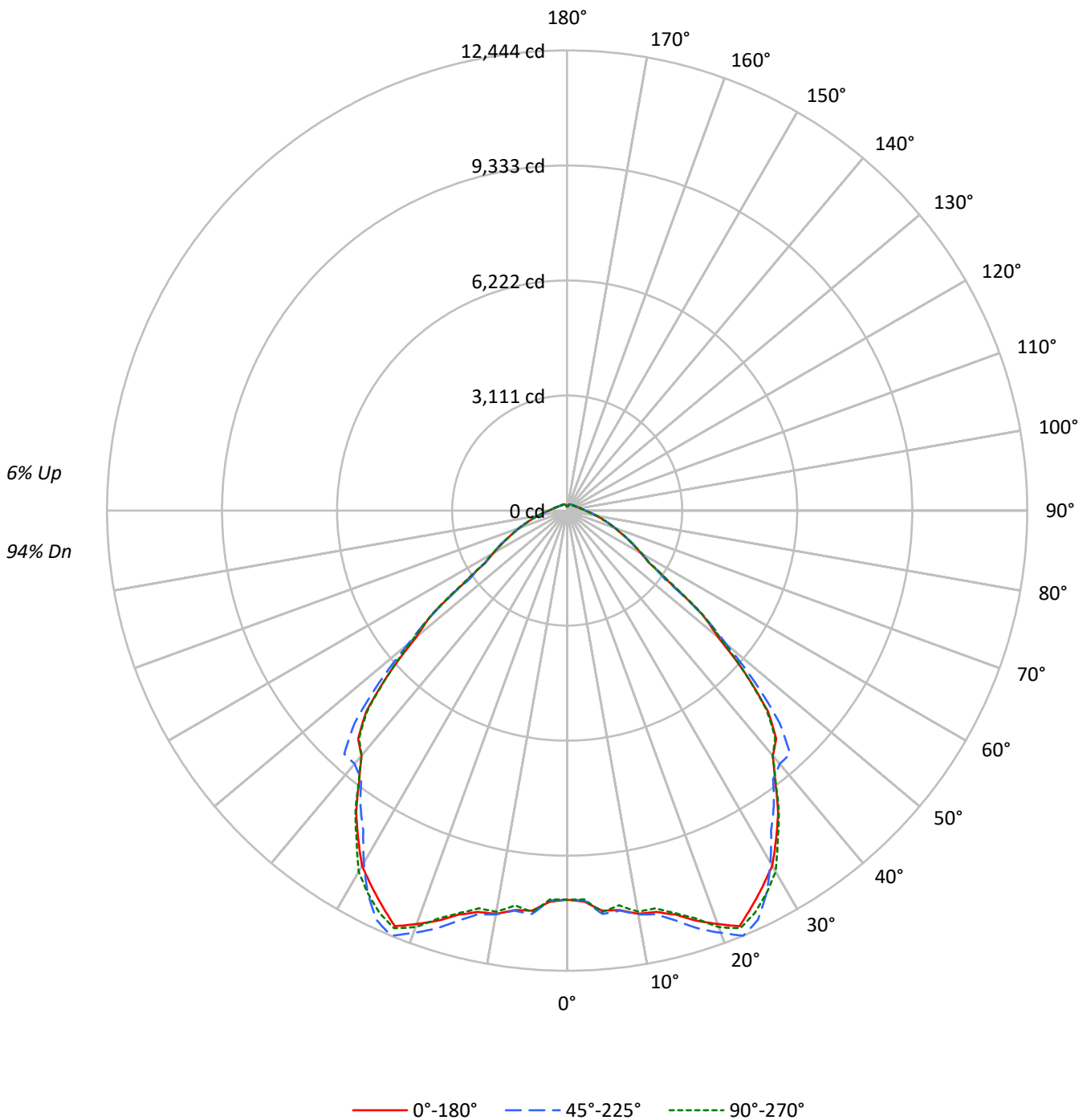
Input Watts (W): 266.35
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	42908	42908	42908
5°	41898	42250	42032
10°	40836	40906	40628
15°	40252	40891	40095
20°	41201	42089	41522
25°	40153	41495	40799
30°	37275	36957	37899
35°	33309	32640	33436
40°	29098	30082	29077
45°	26124	27683	25975
50°	18529	19513	18983
55°	11956	11523	12203
60°	8533	8650	8650
65°	6916	6995	6921
70°	5579	5670	5638
75°	4583	4651	4596
80°	3823	3868	3860
85°	3228	3286	3253



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1038.0	3.4
10°-20°	3269.1	10.8
20°-30°	5530.3	18.2
30°-40°	6183.8	20.3
40°-50°	5844.4	19.2
50°-60°	3212.7	10.6
60°-70°	1798.1	5.9
70°-80°	1130.9	3.7
80°-90°	689.1	2.3
90°-100°	460.1	1.5
100°-110°	342.9	1.1
110°-120°	262.4	0.9
120°-130°	204.8	0.7
130°-140°	160.7	0.5
140°-150°	123.0	0.4
150°-160°	85.5	0.3
160°-170°	44.3	0.1
170°-180°	11.2	0.0
0°-30°	9837.3	32.4
0°-40°	16021.1	52.7
0°-60°	25078.2	82.5
0°-90°	28696.2	94.4
90°-120°	1065.3	3.5
90°-150°	1553.8	5.1
90°-180°	1695.0	5.6
0°-180°	30391.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10523	10523	10523	10523	10523	
5°	10858	10877	10950	10879	10893	###
15°	11310	11415	11489	11363	11266	3240
25°	11815	12236	12210	12408	12005	5416
35°	9946	9735	9746	9766	9983	6185
45°	7677	7611	8135	7543	7633	5693
55°	3350	3329	3229	3384	3419	3197
65°	1784	1791	1805	1795	1786	1779
75°	1045	1053	1060	1057	1048	1120
85°	617	618	628	620	622	543
90°	486	491	494	492	489	269
95°	414	417	420	418	417	328
105°	321	321	323	323	323	341
115°	261	263	263	264	264	261
125°	225	227	227	228	228	203
135°	206	206	206	206	208	160
145°	195	195	195	195	197	123
155°	184	186	184	184	186	86
165°	156	156	154	154	154	44
175°	113	113	112	112	113	11
180°	116	116	116	116	116	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10523.1	10523.1	10523.1	10523.1	10523.1
2.5°	10584.4	10576.6	10548.3	10521.5	10523.1
5°	10858.2	10877.1	10949.5	10878.7	10892.8
7.5°	10896.0	10940.0	10911.7	10851.9	10767.0
10°	11070.6	11086.4	11089.5	11058.0	11014.0
12.5°	11117.8	11262.6	11180.8	11152.4	11020.3
15°	11309.8	11415.2	11489.2	11363.3	11265.7
17.5°	11629.2	11808.6	11855.8	11802.3	11558.4
20°	11895.1	12145.3	12151.6	12175.2	11987.9
22.5°	12167.3	12403.3	12444.2	12488.3	12225.5
25°	11814.9	12236.5	12209.8	12408.0	12005.2
27.5°	11453.0	11756.6	11676.4	11901.4	11668.5
30°	11091.1	11158.7	10996.7	11226.4	11276.8
32.5°	10516.8	10310.7	10265.0	10400.4	10593.9
35°	9945.6	9734.8	9745.8	9766.3	9983.4
37.5°	9239.2	9454.7	9149.5	9512.9	9259.6
40°	8652.3	8984.3	8944.9	8996.9	8646.0
42.5°	8365.9	8350.2	8922.9	8361.2	8326.6
45°	7676.7	7610.7	8134.6	7543.0	7632.7
47.5°	6554.9	6978.1	6913.6	6981.3	6548.6
50°	5338.6	5752.4	5621.9	5854.7	5469.2
52.5°	4594.4	4391.4	4539.3	4454.4	4613.3
55°	3349.8	3329.4	3228.7	3384.4	3419.1
57.5°	2618.2	2632.3	2643.4	2633.9	2627.6
60°	2305.1	2338.1	2336.5	2335.0	2336.5
62.5°	2025.0	2043.9	2064.3	2050.2	2051.7
65°	1784.3	1790.6	1804.7	1795.3	1785.8
67.5°	1551.4	1570.3	1578.1	1579.7	1571.9
70°	1361.0	1375.2	1383.0	1379.9	1375.2
72.5°	1199.0	1206.8	1221.0	1216.3	1206.8
75°	1044.8	1052.6	1060.5	1057.3	1047.9
77.5°	915.7	922.0	928.3	929.9	923.6
80°	804.0	810.3	813.5	808.7	811.9
82.5°	703.3	709.6	712.8	711.2	709.6
85°	616.8	618.4	627.8	619.9	621.5
87.5°	542.8	544.4	547.6	547.6	544.4
90°	486.2	490.9	494.1	492.5	489.3
92.5°	446.9	451.6	451.6	451.6	450.0
95°	413.8	417.0	420.1	418.5	417.0
97.5°	387.1	388.6	391.8	390.2	388.6
100°	361.9	363.5	366.6	365.0	363.5
102.5°	338.3	341.4	343.0	343.0	341.4
105°	321.0	321.0	322.6	322.6	322.6
107.5°	303.7	303.7	305.2	305.2	305.2
110°	289.5	289.5	289.5	289.5	291.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	273.8	275.3	275.3	275.3	276.9
115°	261.2	262.8	262.8	264.3	264.3
117.5°	250.2	250.2	251.7	251.7	253.3
120°	240.7	242.3	242.3	243.9	243.9
122.5°	232.9	232.9	234.4	234.4	236.0
125°	225.0	226.6	226.6	228.1	228.1
127.5°	218.7	220.3	221.9	221.9	221.9
130°	215.6	217.1	217.1	217.1	218.7
132.5°	210.8	210.8	210.8	212.4	214.0
135°	206.1	206.1	206.1	206.1	207.7
137.5°	201.4	203.0	203.0	203.0	203.0
140°	198.3	199.8	199.8	199.8	199.8
142.5°	196.7	198.3	198.3	198.3	198.3
145°	195.1	195.1	195.1	195.1	196.7
147.5°	193.5	193.5	193.5	193.5	193.5
150°	192.0	192.0	190.4	190.4	192.0
152.5°	188.8	188.8	187.2	188.8	188.8
155°	184.1	185.7	184.1	184.1	185.7
157.5°	180.9	180.9	180.9	180.9	180.9
160°	174.7	174.7	173.1	173.1	174.7
162.5°	165.2	165.2	165.2	165.2	165.2
165°	155.8	155.8	154.2	154.2	154.2
167.5°	144.8	144.8	144.8	144.8	144.8
170°	130.6	132.2	130.6	130.6	130.6
172.5°	114.9	114.9	114.9	114.9	114.9
175°	113.3	113.3	111.7	111.7	113.3
177.5°	113.3	114.9	114.9	114.9	113.3
180°	116.4	116.4	116.4	116.4	116.4

(END OF REPORT)