

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: P231414

Luminaire Tested: **SSLED-LD5-18-W-UNV-L840-CD1-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: P231414
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-LD5-18-W-UNV-L840-CD1-U-FRR22
Description: STEELER WHITE REFRACTOR LENS
Light Source: (240) 4000 CCT, 80 CRI LEDS
Ballast/Driver: (1) ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17924.0 lumens
Efficiency: N/A
Efficacy: 134.0 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

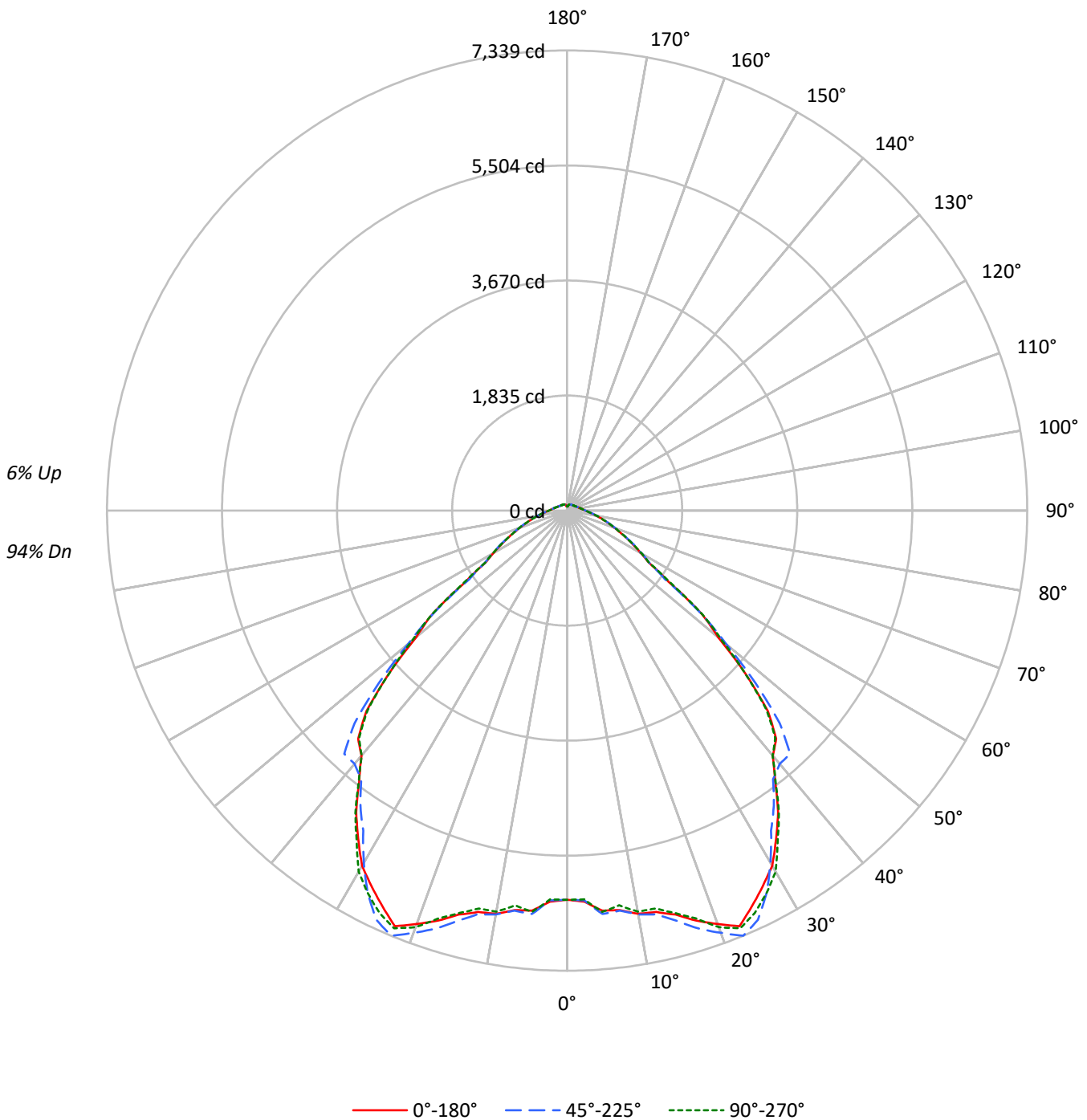
Input Watts (W): 133.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	25306	25306	25306
5°	24711	24918	24790
10°	24084	24126	23961
15°	23740	24117	23648
20°	24299	24824	24489
25°	23681	24473	24063
30°	21984	21797	22352
35°	19645	19250	19720
40°	17161	17742	17149
45°	15408	16327	15319
50°	10928	11508	11196
55°	7051	6796	7197
60°	5033	5101	5101
65°	4079	4125	4082
70°	3291	3344	3325
75°	2703	2744	2711
80°	2255	2281	2277
85°	1904	1938	1919



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	612.2	3.4
10°-20°	1928.0	10.8
20°-30°	3261.6	18.2
30°-40°	3647.1	20.3
40°-50°	3446.9	19.2
50°-60°	1894.8	10.6
60°-70°	1060.5	5.9
70°-80°	667.0	3.7
80°-90°	406.4	2.3
90°-100°	271.3	1.5
100°-110°	202.2	1.1
110°-120°	154.7	0.9
120°-130°	120.8	0.7
130°-140°	94.8	0.5
140°-150°	72.5	0.4
150°-160°	50.4	0.3
160°-170°	26.2	0.1
170°-180°	6.6	0.0
0°-30°	5801.9	32.4
0°-40°	9448.9	52.7
0°-60°	14790.6	82.5
0°-90°	16924.4	94.4
90°-120°	628.3	3.5
90°-150°	916.4	5.1
90°-180°	1000.0	5.6
0°-180°	17924.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6206	6206	6206	6206	6206	
5°	6404	6415	6458	6416	6424	612
15°	6670	6732	6776	6702	6644	1911
25°	6968	7217	7201	7318	7080	3194
35°	5866	5741	5748	5760	5888	3648
45°	4528	4489	4798	4449	4502	3358
55°	1976	1964	1904	1996	2016	1886
65°	1052	1056	1064	1059	1053	1049
75°	616	621	626	624	618	660
85°	364	365	370	366	367	320
90°	287	290	291	290	289	159
95°	244	246	248	247	246	194
105°	189	189	190	190	190	201
115°	154	155	155	156	156	154
125°	133	134	134	135	135	120
135°	122	122	122	122	122	94
145°	115	115	115	115	116	72
155°	109	110	109	109	110	50
165°	92	92	91	91	91	26
175°	67	67	66	66	67	7
180°	69	69	69	69	69	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6206.3	6206.3	6206.3	6206.3	6206.3
2.5°	6242.5	6237.9	6221.1	6205.4	6206.3
5°	6404.0	6415.1	6457.8	6416.0	6424.4
7.5°	6426.2	6452.2	6435.5	6400.2	6350.1
10°	6529.2	6538.5	6540.4	6521.8	6495.8
12.5°	6557.1	6642.4	6594.2	6577.5	6499.5
15°	6670.3	6732.5	6776.1	6701.8	6644.3
17.5°	6858.7	6964.5	6992.3	6960.7	6816.9
20°	7015.5	7163.0	7166.8	7180.7	7070.2
22.5°	7176.0	7315.2	7339.4	7365.3	7210.4
25°	6968.2	7216.9	7201.1	7318.0	7080.5
27.5°	6754.7	6933.8	6886.5	7019.2	6881.9
30°	6541.3	6581.2	6485.6	6621.1	6650.8
32.5°	6202.6	6081.0	6054.1	6133.9	6248.1
35°	5865.7	5741.4	5747.9	5759.9	5888.0
37.5°	5449.1	5576.2	5396.2	5610.5	5461.1
40°	5102.9	5298.7	5275.5	5306.2	5099.2
42.5°	4934.0	4924.8	5262.5	4931.3	4910.8
45°	4527.6	4488.6	4797.6	4448.7	4501.6
47.5°	3865.9	4115.6	4077.5	4117.4	3862.2
50°	3148.6	3392.7	3315.7	3453.0	3225.6
52.5°	2709.7	2590.0	2677.2	2627.1	2720.8
55°	1975.7	1963.6	1904.2	1996.1	2016.5
57.5°	1544.2	1552.5	1559.0	1553.4	1549.7
60°	1359.5	1379.0	1378.0	1377.1	1378.0
62.5°	1194.3	1205.4	1217.5	1209.2	1210.1
65°	1052.3	1056.0	1064.4	1058.8	1053.3
67.5°	915.0	926.1	930.8	931.7	927.0
70°	802.7	811.1	815.7	813.8	811.1
72.5°	707.1	711.8	720.1	717.3	711.8
75°	616.2	620.8	625.5	623.6	618.0
77.5°	540.1	543.8	547.5	548.4	544.7
80°	474.2	477.9	479.8	477.0	478.8
82.5°	414.8	418.5	420.4	419.4	418.5
85°	363.8	364.7	370.3	365.6	366.6
87.5°	320.2	321.1	322.9	322.9	321.1
90°	286.7	289.5	291.4	290.5	288.6
92.5°	263.5	266.3	266.3	266.3	265.4
95°	244.1	245.9	247.8	246.8	245.9
97.5°	228.3	229.2	231.1	230.1	229.2
100°	213.4	214.4	216.2	215.3	214.4
102.5°	199.5	201.4	202.3	202.3	201.4
105°	189.3	189.3	190.2	190.2	190.2
107.5°	179.1	179.1	180.0	180.0	180.0
110°	170.7	170.7	170.7	170.7	171.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	161.5	162.4	162.4	162.4	163.3
115°	154.0	155.0	155.0	155.9	155.9
117.5°	147.5	147.5	148.5	148.5	149.4
120°	142.0	142.9	142.9	143.8	143.8
122.5°	137.3	137.3	138.3	138.3	139.2
125°	132.7	133.6	133.6	134.6	134.6
127.5°	129.0	129.9	130.8	130.8	130.8
130°	127.1	128.1	128.1	128.1	129.0
132.5°	124.3	124.3	124.3	125.3	126.2
135°	121.6	121.6	121.6	121.6	122.5
137.5°	118.8	119.7	119.7	119.7	119.7
140°	116.9	117.9	117.9	117.9	117.9
142.5°	116.0	116.9	116.9	116.9	116.9
145°	115.1	115.1	115.1	115.1	116.0
147.5°	114.1	114.1	114.1	114.1	114.1
150°	113.2	113.2	112.3	112.3	113.2
152.5°	111.4	111.4	110.4	111.4	111.4
155°	108.6	109.5	108.6	108.6	109.5
157.5°	106.7	106.7	106.7	106.7	106.7
160°	103.0	103.0	102.1	102.1	103.0
162.5°	97.4	97.4	97.4	97.4	97.4
165°	91.9	91.9	90.9	90.9	90.9
167.5°	85.4	85.4	85.4	85.4	85.4
170°	77.0	77.9	77.0	77.0	77.0
172.5°	67.7	67.7	67.7	67.7	67.7
175°	66.8	66.8	65.9	65.9	66.8
177.5°	66.8	67.7	67.7	67.7	66.8
180°	68.7	68.7	68.7	68.7	68.7

(END OF REPORT)