

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: P231424

Luminaire Tested: **SSLED-LD5-36-W-UNV-L850-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: P231424
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-LD5-36-W-UNV-L850-CD2-U-FRR22
Description: STEELER WHITE REFRACTOR LENS
Light Source: (240) 5000 CCT, 80 CRI LEDS
Ballast/Driver: (2) ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36580.0 lumens
Efficiency: N/A
Efficacy: 109.6 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

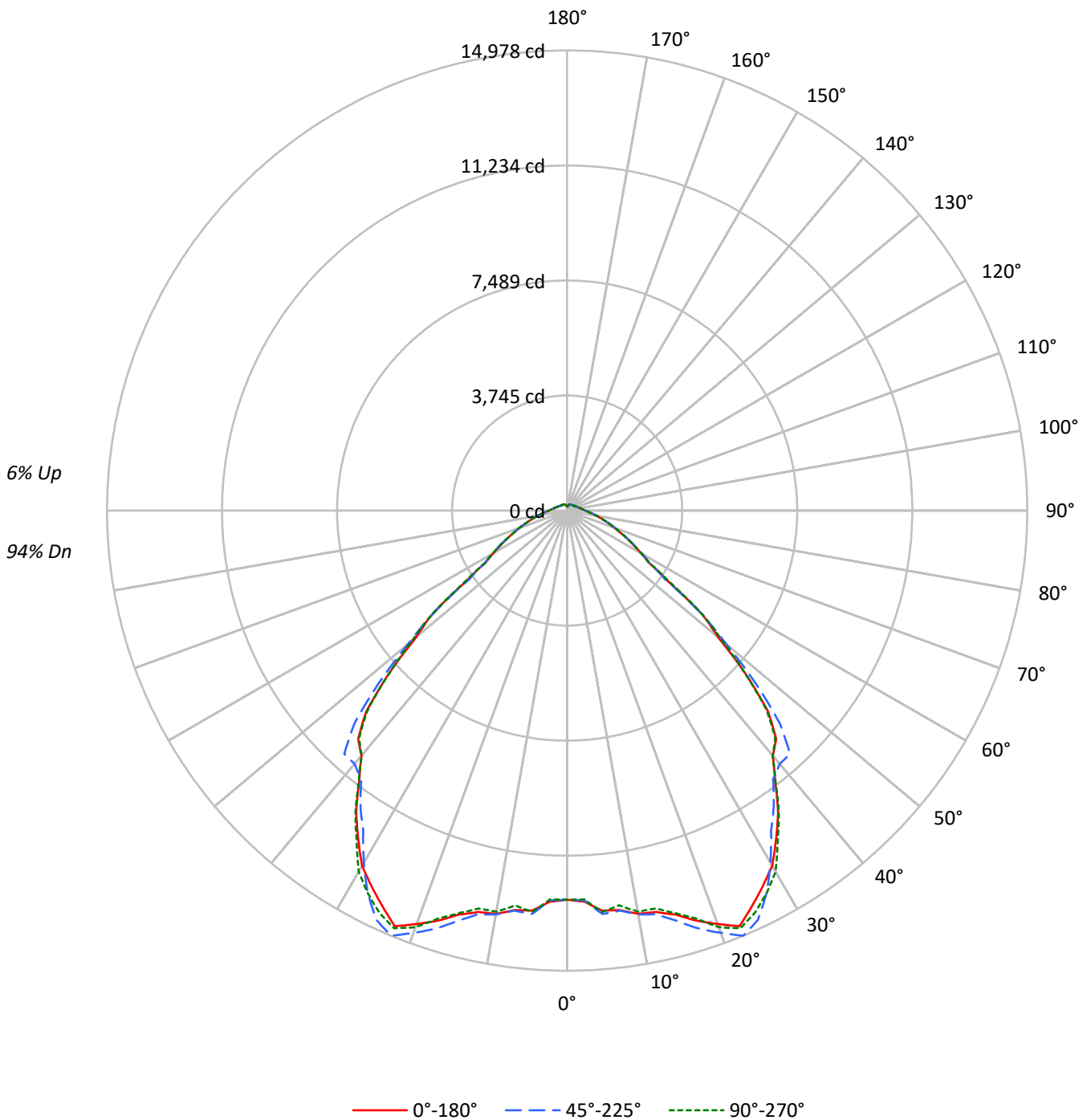
Input Watts (W): 333.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	51646	51646	51646
5°	50430	50854	50591
10°	49153	49236	48901
15°	48450	49218	48261
20°	49591	50661	49978
25°	48329	49945	49108
30°	44865	44484	45616
35°	40092	39287	40245
40°	35024	36208	34998
45°	31445	33320	31264
50°	22303	23486	22848
55°	14390	13870	14688
60°	10271	10411	10411
65°	8324	8419	8331
70°	6716	6825	6786
75°	5516	5599	5532
80°	4602	4655	4646
85°	3886	3955	3916



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1249.4	3.4
10°-20°	3934.8	10.8
20°-30°	6656.5	18.2
30°-40°	7443.1	20.3
40°-50°	7034.5	19.2
50°-60°	3866.9	10.6
60°-70°	2164.2	5.9
70°-80°	1361.2	3.7
80°-90°	829.4	2.3
90°-100°	553.8	1.5
100°-110°	412.8	1.1
110°-120°	315.8	0.9
120°-130°	246.5	0.7
130°-140°	193.4	0.5
140°-150°	148.0	0.4
150°-160°	102.9	0.3
160°-170°	53.4	0.1
170°-180°	13.5	0.0
0°-30°	11840.7	32.4
0°-40°	19283.8	52.7
0°-60°	30185.2	82.5
0°-90°	34540.0	94.4
90°-120°	1282.3	3.5
90°-150°	1870.2	5.1
90°-180°	2040.0	5.6
0°-180°	36580.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12666	12666	12666	12666	12666	
5°	13069	13092	13179	13094	13111	###
15°	13613	13740	13829	13677	13560	3900
25°	14221	14728	14696	14935	14450	6519
35°	11971	11717	11730	11755	12016	7444
45°	9240	9160	9791	9079	9187	6853
55°	4032	4007	3886	4074	4115	3848
65°	2148	2155	2172	2161	2150	2141
75°	1258	1267	1276	1273	1261	1348
85°	742	744	756	746	748	653
90°	585	591	595	593	589	324
95°	498	502	506	504	502	395
105°	386	386	388	388	388	411
115°	314	316	316	318	318	314
125°	271	273	273	275	275	245
135°	248	248	248	248	250	193
145°	235	235	235	235	237	148
155°	222	224	222	222	224	103
165°	188	188	186	186	186	53
175°	136	136	134	134	136	14
180°	140	140	140	140	140	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12666.1	12666.1	12666.1	12666.1	12666.1
2.5°	12739.9	12730.5	12696.4	12664.2	12666.1
5°	13069.4	13092.2	13179.3	13094.1	13111.1
7.5°	13114.9	13167.9	13133.8	13061.9	12959.6
10°	13325.1	13344.1	13347.8	13310.0	13256.9
12.5°	13381.9	13556.2	13457.7	13423.6	13264.5
15°	13613.0	13739.9	13828.9	13677.4	13560.0
17.5°	13997.4	14213.3	14270.1	14205.8	13912.2
20°	14317.5	14618.6	14626.2	14654.6	14429.2
22.5°	14645.1	14929.2	14978.4	15031.5	14715.2
25°	14220.9	14728.5	14696.3	14934.9	14450.1
27.5°	13785.3	14150.8	14054.3	14325.1	14044.8
30°	13349.7	13431.2	13236.1	13512.6	13573.2
32.5°	12658.5	12410.4	12355.5	12518.3	12751.3
35°	11971.0	11717.2	11730.5	11755.1	12016.5
37.5°	11120.7	11380.1	11012.7	11450.2	11145.3
40°	10414.3	10813.9	10766.5	10829.0	10406.7
42.5°	10069.6	10050.7	10740.0	10063.9	10022.2
45°	9240.1	9160.5	9791.2	9079.1	9187.1
47.5°	7889.8	8399.2	8321.6	8403.0	7882.2
50°	6425.8	6923.9	6766.7	7047.0	6583.0
52.5°	5530.0	5285.7	5463.8	5361.5	5552.8
55°	4032.0	4007.4	3886.2	4073.7	4115.3
57.5°	3151.4	3168.4	3181.7	3170.3	3162.7
60°	2774.5	2814.3	2812.4	2810.5	2812.4
62.5°	2437.4	2460.1	2484.7	2467.7	2469.6
65°	2147.6	2155.2	2172.2	2160.9	2149.5
67.5°	1867.3	1890.1	1899.5	1901.4	1892.0
70°	1638.2	1655.2	1664.7	1660.9	1655.2
72.5°	1443.1	1452.6	1469.6	1463.9	1452.6
75°	1257.5	1267.0	1276.5	1272.7	1261.3
77.5°	1102.2	1109.8	1117.4	1119.3	1111.7
80°	967.8	975.3	979.1	973.4	977.2
82.5°	846.6	854.1	857.9	856.0	854.1
85°	742.4	744.3	755.6	746.2	748.1
87.5°	653.4	655.3	659.1	659.1	655.3
90°	585.2	590.9	594.7	592.8	589.0
92.5°	537.9	543.5	543.5	543.5	541.6
95°	498.1	501.9	505.7	503.8	501.9
97.5°	465.9	467.8	471.6	469.7	467.8
100°	435.6	437.5	441.3	439.4	437.5
102.5°	407.2	411.0	412.9	412.9	411.0
105°	386.3	386.3	388.2	388.2	388.2
107.5°	365.5	365.5	367.4	367.4	367.4
110°	348.5	348.5	348.5	348.5	350.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	329.5	331.4	331.4	331.4	333.3
115°	314.4	316.3	316.3	318.2	318.2
117.5°	301.1	301.1	303.0	303.0	304.9
120°	289.8	291.7	291.7	293.5	293.5
122.5°	280.3	280.3	282.2	282.2	284.1
125°	270.8	272.7	272.7	274.6	274.6
127.5°	263.2	265.1	267.0	267.0	267.0
130°	259.5	261.4	261.4	261.4	263.2
132.5°	253.8	253.8	253.8	255.7	257.6
135°	248.1	248.1	248.1	248.1	250.0
137.5°	242.4	244.3	244.3	244.3	244.3
140°	238.6	240.5	240.5	240.5	240.5
142.5°	236.7	238.6	238.6	238.6	238.6
145°	234.8	234.8	234.8	234.8	236.7
147.5°	232.9	232.9	232.9	232.9	232.9
150°	231.0	231.0	229.2	229.2	231.0
152.5°	227.3	227.3	225.4	227.3	227.3
155°	221.6	223.5	221.6	221.6	223.5
157.5°	217.8	217.8	217.8	217.8	217.8
160°	210.2	210.2	208.3	208.3	210.2
162.5°	198.9	198.9	198.9	198.9	198.9
165°	187.5	187.5	185.6	185.6	185.6
167.5°	174.2	174.2	174.2	174.2	174.2
170°	157.2	159.1	157.2	157.2	157.2
172.5°	138.3	138.3	138.3	138.3	138.3
175°	136.4	136.4	134.5	134.5	136.4
177.5°	136.4	138.3	138.3	138.3	136.4
180°	140.1	140.1	140.1	140.1	140.1

(END OF REPORT)