

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: P236270

Luminaire Tested: **4SWLED-32SL-LW-UNV-L850-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P236270
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-316-15)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SWLED-32SL-LW-UNV-L850-CD1-U
Description: METALUX SWLED LINEAR LUMINAIRE
4FT FIXTURE WITH 1 ROW LED, WIDE LENS
Light Source: (112) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

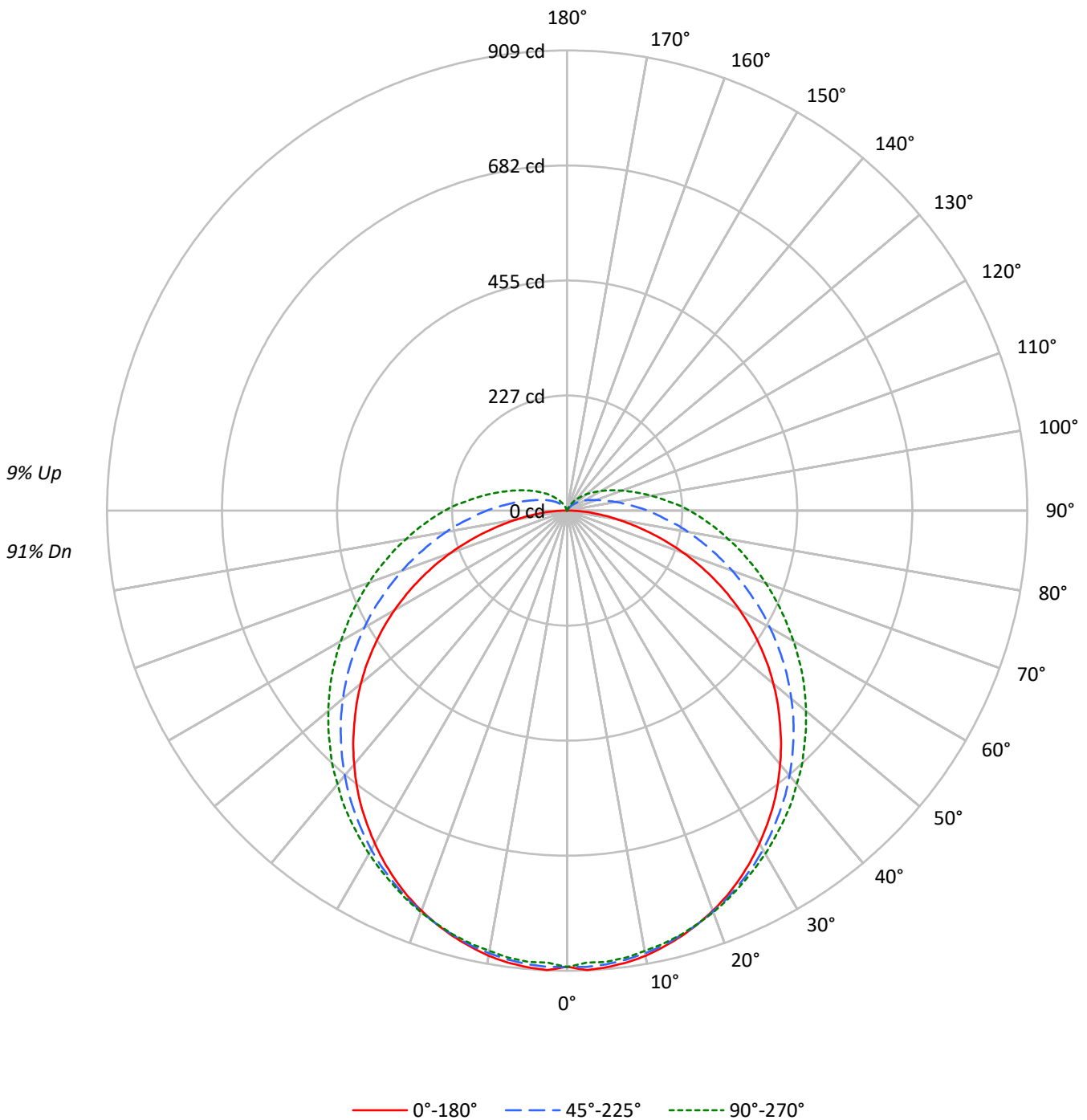
Lumens per Lamp: N/A
Luminaire Lumens: 3301.0 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 4' x H: 0.15')
CIE Type: Direct

Input Watts (W): 28.6
Input Voltage (V): 120
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

TEST NUMBER: P236270

CATALOG NUMBER: 4SWLED-32SL-LW-UNV-L850-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P236270

CATALOG NUMBER: 4SWLED-32SL-LW-UNV-L850-CD1-U

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	117	117	117	117	113	113	113	113	106	106	106	100	100	100	94	94	94	91
1	104	99	94	89	101	96	91	87	90	86	82	84	81	78	79	76	74	71
2	94	85	77	71	91	82	75	69	77	71	66	72	68	63	68	64	61	58
3	85	74	65	58	82	72	63	57	67	60	55	63	57	53	60	55	51	48
4	78	65	56	49	75	63	55	48	59	52	46	56	50	45	53	47	43	40
5	71	58	49	42	69	56	47	41	53	45	40	50	43	38	47	42	37	35
6	66	52	43	36	63	51	42	35	48	40	34	45	39	33	43	37	32	30
7	61	47	38	32	59	46	37	31	43	36	30	41	34	29	39	33	29	26
8	57	43	34	28	55	42	33	28	40	32	27	38	31	26	36	30	26	23
9	53	39	31	25	51	38	30	25	36	29	24	35	28	24	33	27	23	21
10	50	36	28	23	48	35	28	22	34	27	22	32	26	21	31	25	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6467	6467	6467
5°	6500	6314	6232
10°	6465	6145	6022
15°	6407	5970	5837
20°	6340	5801	5649
25°	6261	5630	5462
30°	6166	5462	5297
35°	6068	5284	5141
40°	5949	5111	4983
45°	5821	4933	4836
50°	5692	4750	4698
55°	5525	4562	4564
60°	5317	4368	4428
65°	5038	4167	4316
70°	4672	3986	4229
75°	4134	3813	4167
80°	3493	3705	4165
85°	2726	3631	4240



TEST NUMBER: P236270

CATALOG NUMBER: 4SWLED-32SL-LW-UNV-L850-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.3	2.6
10°-20°	244.6	7.4
20°-30°	372.4	11.3
30°-40°	454.9	13.8
40°-50°	485.5	14.7
50°-60°	463.2	14.0
60°-70°	395.2	12.0
70°-80°	298.5	9.0
80°-90°	200.3	6.1
90°-100°	125.6	3.8
100°-110°	78.2	2.4
110°-120°	48.0	1.5
120°-130°	28.0	0.8
130°-140°	14.3	0.4
140°-150°	5.6	0.2
150°-160°	1.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	702.3	21.3
0°-40°	1157.2	35.1
0°-60°	2105.9	63.8
0°-90°	2999.9	90.9
90°-120°	251.8	7.6
90°-150°	299.7	9.1
90°-180°	301.0	9.1
0°-180°	3301.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	901	901	901	901	901	
5°	905	895	900	895	895	86
15°	871	862	868	867	868	246
25°	804	798	811	812	815	371
35°	710	710	730	738	747	444
45°	594	604	632	650	662	459
55°	465	483	521	551	567	415
65°	320	350	404	447	466	317
75°	169	217	292	350	368	180
85°	47	109	196	259	280	49
90°	1	74	159	220	242	3
95°	0	48	124	181	202	0
105°	0	23	76	122	140	0
115°	0	13	49	81	95	0
125°	0	7	31	53	62	0
135°	0	2	17	33	39	0
145°	0	1	7	16	21	0
155°	1	0	2	5	7	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P236270

CATALOG NUMBER: 4SWLED-32SL-LW-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	901.2	901.2	901.2	901.2	901.2
2.5°	908.6	897.9	902.0	898.7	893.8
5°	905.3	895.4	899.6	895.4	894.6
7.5°	900.4	890.5	894.6	891.3	890.5
10°	893.0	882.3	888.0	883.9	883.1
12.5°	882.3	873.2	879.8	875.7	876.5
15°	870.8	861.7	868.3	866.7	867.5
17.5°	856.8	848.6	856.8	855.2	856.0
20°	841.2	833.8	842.8	842.0	844.5
22.5°	823.9	816.5	828.0	826.4	830.5
25°	804.2	798.4	810.8	811.6	814.9
27.5°	782.8	778.7	793.5	794.3	799.2
30°	759.8	756.5	773.7	777.0	782.8
32.5°	735.1	734.3	752.4	758.1	764.7
35°	710.4	709.6	730.2	737.6	746.6
37.5°	683.3	684.9	708.0	717.8	727.7
40°	654.5	657.0	683.3	695.6	705.5
42.5°	625.7	632.3	658.6	674.3	685.8
45°	594.5	604.4	632.3	650.4	661.9
47.5°	564.1	575.6	606.0	626.6	639.7
50°	532.0	545.2	578.0	601.9	615.9
52.5°	499.1	513.9	550.1	577.2	592.0
55°	464.6	482.7	521.3	550.9	567.4
57.5°	430.0	450.6	491.7	526.2	541.9
60°	393.9	416.9	462.9	499.1	516.4
62.5°	357.7	384.0	434.2	474.4	490.9
65°	319.9	349.5	403.7	447.3	466.2
67.5°	282.9	316.6	375.0	421.8	441.6
70°	245.0	282.0	347.0	397.2	416.9
72.5°	207.2	249.1	319.0	373.3	393.0
75°	169.4	217.1	291.9	349.5	368.4
77.5°	134.0	185.0	266.4	324.8	346.2
80°	102.0	157.1	242.6	302.6	323.1
82.5°	72.4	132.4	219.5	280.4	301.8
85°	46.9	109.4	195.7	259.0	280.4
87.5°	23.0	89.6	176.8	239.3	260.7
90°	0.8	74.0	158.7	220.4	241.7
92.5°	0.0	59.2	140.6	199.8	222.8
95°	0.0	47.7	124.2	180.9	201.5
97.5°	0.0	39.5	110.2	165.3	185.0
100°	0.0	32.1	97.8	149.7	168.6
102.5°	0.0	27.1	86.3	135.7	153.8
105°	0.0	23.0	76.5	122.5	139.8
107.5°	0.0	20.6	68.2	111.0	126.6
110°	0.0	18.1	60.8	100.3	115.1



TEST NUMBER: P236270

CATALOG NUMBER: 4SWLED-32SL-LW-UNV-L850-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	15.6	54.3	90.4	104.4
115°	0.0	13.2	49.3	81.4	94.6
117.5°	0.0	11.5	44.4	73.2	85.5
120°	0.0	9.9	39.5	66.6	77.3
122.5°	0.0	8.2	35.4	60.0	69.9
125°	0.0	7.4	31.2	53.4	62.5
127.5°	0.0	5.8	28.0	47.7	56.7
130°	0.0	4.9	23.8	42.8	50.2
132.5°	0.0	3.3	20.6	37.8	44.4
135°	0.0	2.5	17.3	32.9	38.6
137.5°	0.0	1.6	14.8	28.8	33.7
140°	0.0	1.6	11.5	24.7	28.8
142.5°	0.0	0.8	9.0	20.6	24.7
145°	0.0	0.8	7.4	16.4	20.6
147.5°	0.8	0.0	4.9	13.2	16.4
150°	0.8	0.0	4.1	9.9	13.2
152.5°	0.8	0.0	2.5	7.4	9.9
155°	0.8	0.0	1.6	4.9	6.6
157.5°	0.8	0.8	0.8	2.5	4.1
160°	0.8	0.0	0.0	1.6	2.5
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)