

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: P236234

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P236234
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-316-16)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SWLED-32SL-LC-UNV-L850-CD1-U
Description: METALUX SWLED LINEAR LUMINAIRE
4FT FIXTURE WITH 1 ROW LED, CLEAR LENS
Light Source: (112) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

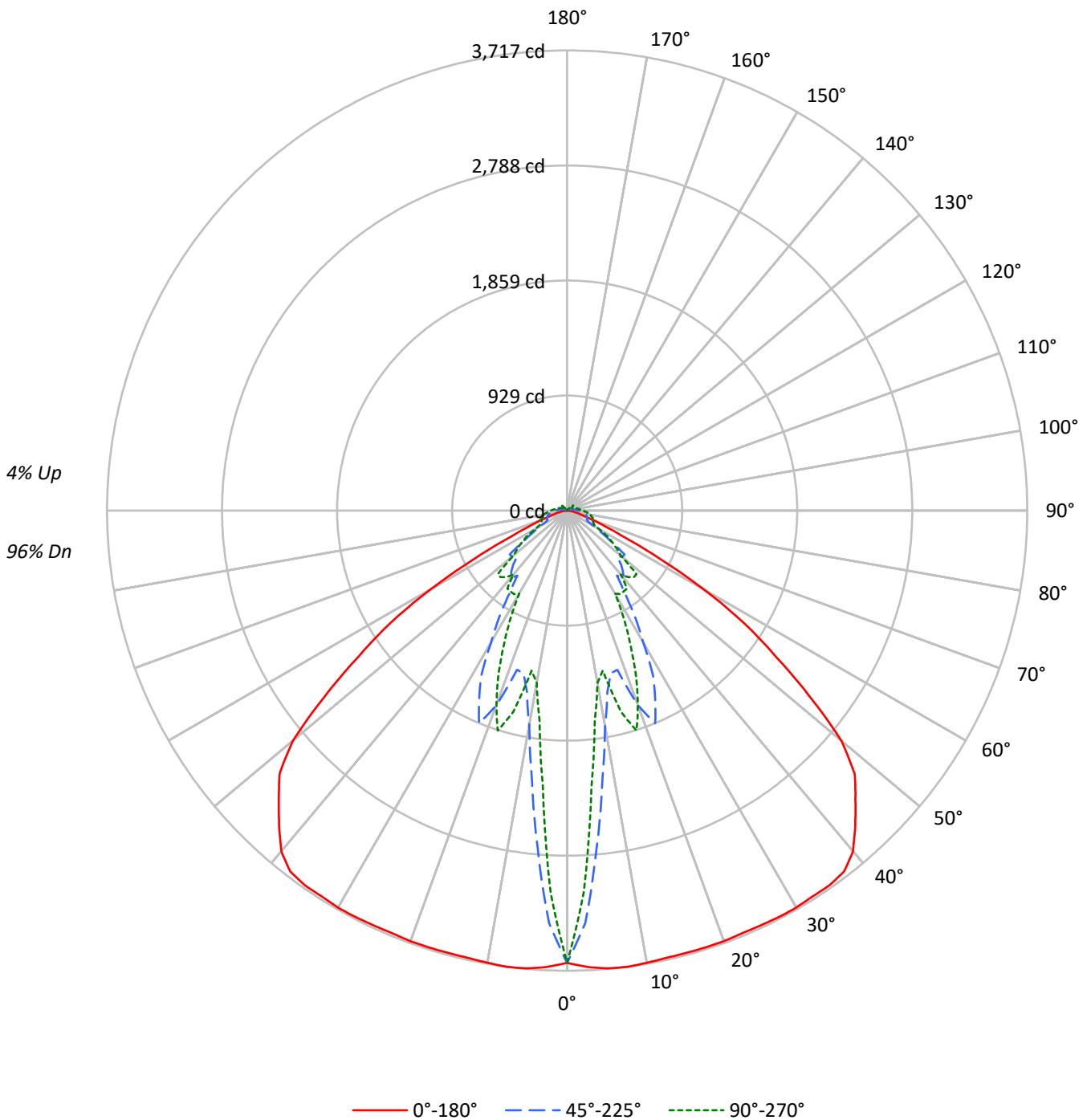
Lumens per Lamp: N/A
Luminaire Lumens: 4464.0 lumens
Efficiency: N/A
Efficacy: 156.1 lumens/watt
Spacing Criteria (0/90/45): 1.54 / 0.24 / 0.77
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 4' x H: 0.15')
CIE Type: Direct

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: P236234

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

Luminous Intensity Polar Plot





TEST NUMBER: P236234

CATALOG NUMBER: 4SWLED-32SL-LC-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	50	30	10	50	30	10	0		
RCR																										
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	99	99	99	99	96		
1	109	105	101	97	106	102	99	95	97	94	92	93	90	88	89	87	85	85	85	85	85	85	85	83		
2	100	93	87	82	98	91	85	81	87	82	78	83	79	76	80	77	74	74	74	74	74	74	74	72		
3	93	83	76	70	90	82	75	69	78	72	68	75	70	66	72	68	65	65	65	65	65	65	65	62		
4	86	75	67	61	83	73	66	61	71	64	59	68	63	58	65	61	57	57	57	57	57	57	57	55		
5	80	68	60	54	77	67	59	53	64	58	52	62	56	52	60	55	51	51	51	51	51	51	51	49		
6	74	62	54	48	72	61	53	47	59	52	47	57	51	46	55	50	45	45	45	45	45	45	45	44		
7	69	57	49	43	67	56	48	43	54	47	42	52	46	42	51	45	41	41	41	41	41	41	41	39		
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	37	37	37	37	37	37	37	36		
9	61	48	41	35	59	47	40	35	46	39	35	45	39	34	44	38	34	34	34	34	34	34	34	32		
10	57	45	37	32	56	44	37	32	43	36	32	42	36	32	41	35	31	31	31	31	31	31	31	30		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	26214	26214	26214
5°	26656	19213	15628
10°	26854	12207	9631
15°	27222	9342	11316
20°	27897	11543	11169
25°	28787	11679	8165
30°	30047	8665	5240
35°	31564	5811	5485
40°	32652	5331	4767
45°	32244	4797	5562
50°	30950	4762	4308
55°	24478	3762	3558
60°	17256	2288	2502
65°	8052	1816	2200
70°	4045	1964	2226
75°	2467	2127	2362
80°	1606	2210	2501
85°	814	2288	2424



TEST NUMBER: P236234

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.7	5.6
10°-20°	547.0	12.3
20°-30°	781.0	17.5
30°-40°	834.0	18.7
40°-50°	775.7	17.4
50°-60°	570.4	12.8
60°-70°	253.7	5.7
70°-80°	167.1	3.7
80°-90°	115.8	2.6
90°-100°	68.3	1.5
100°-110°	39.6	0.9
110°-120°	24.1	0.5
120°-130°	17.3	0.4
130°-140°	14.6	0.3
140°-150°	4.3	0.1
150°-160°	1.3	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1577.7	35.3
0°-40°	2411.8	54.0
0°-60°	3757.9	84.2
0°-90°	4294.5	96.2
90°-120°	131.9	3.0
90°-150°	168.1	3.8
90°-180°	170.0	3.8
0°-180°	4464.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3653	3653	3653	3653	3653	
5°	3712	3311	2737	2382	2243	354
15°	3700	2006	1359	1501	1682	1049
25°	3698	1293	1682	1324	1218	1712
35°	3695	1558	803	816	797	2309
45°	3293	669	615	683	761	2536
55°	2058	399	430	435	442	1853
65°	511	154	176	223	238	595
75°	101	100	163	215	209	117
85°	14	58	123	154	160	19
90°	0	44	95	122	129	1
95°	0	31	70	91	106	0
105°	0	17	40	54	73	0
115°	1	10	25	37	48	0
125°	1	4	15	30	49	1
135°	1	2	13	40	49	1
145°	2	2	6	11	11	1
155°	2	2	2	4	3	1
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P236234

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3653.1	3653.1	3653.1	3653.1	3653.1
2.5°	3690.1	3529.8	3334.2	3161.6	3087.6
5°	3712.3	3311.2	2737.4	2381.5	2243.3
7.5°	3717.3	3004.6	2182.5	1790.4	1709.0
10°	3709.0	2644.5	1764.1	1455.8	1412.3
12.5°	3700.8	2309.9	1497.8	1344.9	1324.3
15°	3700.0	2005.8	1358.8	1501.0	1681.9
17.5°	3701.6	1711.5	1349.0	1867.7	1863.6
20°	3701.6	1495.3	1677.0	1783.0	1669.6
22.5°	3694.3	1342.4	1859.5	1581.6	1456.7
25°	3697.5	1293.1	1681.9	1323.5	1218.3
27.5°	3701.6	1359.7	1504.3	1107.3	1003.7
30°	3702.5	1547.9	1227.3	896.0	774.4
32.5°	3693.4	1644.9	1021.0	713.5	799.8
35°	3695.1	1557.8	803.1	815.5	796.6
37.5°	3674.5	1358.8	660.9	757.1	794.1
40°	3592.3	1095.0	712.7	710.2	674.9
42.5°	3444.4	850.0	666.7	646.9	729.2
45°	3293.1	669.1	614.9	683.1	761.2
47.5°	3151.7	539.3	546.7	749.7	759.6
50°	2892.8	506.4	579.5	634.6	564.7
52.5°	2474.3	461.2	584.5	496.5	505.6
55°	2058.4	398.7	429.9	434.9	442.3
57.5°	1702.4	377.3	324.7	392.9	382.2
60°	1278.3	328.8	242.5	309.1	291.8
62.5°	845.1	207.2	186.6	239.2	241.7
65°	511.3	154.5	175.9	222.8	237.6
67.5°	322.2	136.5	173.5	225.2	222.0
70°	212.1	123.3	171.0	225.2	219.5
72.5°	143.0	111.8	167.7	222.8	223.6
75°	101.1	99.5	162.8	215.4	208.8
77.5°	70.7	88.8	156.2	201.4	195.6
80°	46.9	78.1	144.7	186.6	194.0
82.5°	27.9	67.4	134.8	171.0	178.4
85°	14.0	58.4	123.3	154.5	160.3
87.5°	5.8	51.0	109.3	137.3	142.2
90°	0.0	43.6	95.4	121.7	129.1
92.5°	0.0	37.0	82.2	106.0	117.6
95°	0.0	31.2	69.9	91.2	106.0
97.5°	0.0	27.1	60.0	79.7	96.2
100°	0.0	23.0	51.8	69.1	88.0
102.5°	0.0	20.6	44.4	60.8	80.6
105°	0.0	17.3	39.5	54.3	73.2
107.5°	0.0	14.8	34.5	48.5	65.8
110°	0.0	13.2	30.4	44.4	59.2



TEST NUMBER: P236234

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	11.5	27.9	40.3	52.6
115°	0.8	9.9	24.7	37.0	47.7
117.5°	0.8	8.2	22.2	33.7	44.4
120°	0.8	6.6	19.7	31.2	43.6
122.5°	0.8	4.9	17.3	29.6	45.2
125°	0.8	4.1	14.8	29.6	49.3
127.5°	0.8	3.3	12.3	32.9	56.7
130°	0.8	2.5	12.3	39.5	64.1
132.5°	0.8	1.6	12.3	43.6	61.7
135°	0.8	1.6	13.2	40.3	49.3
137.5°	0.8	1.6	13.2	31.2	35.3
140°	0.8	1.6	10.7	22.2	24.7
142.5°	0.8	1.6	7.4	15.6	16.4
145°	1.6	1.6	5.8	10.7	10.7
147.5°	1.6	1.6	4.1	7.4	7.4
150°	1.6	1.6	3.3	5.8	5.8
152.5°	1.6	1.6	2.5	4.9	4.1
155°	1.6	1.6	2.5	4.1	3.3
157.5°	1.6	1.6	1.6	3.3	2.5
160°	1.6	2.5	2.5	3.3	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)