

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: P236268

Luminaire Tested: **4SWLED-32SL-LW-UNV-L835-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P236268
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-L835-CD1-U
Description: METALUX SWLED LINEAR LUMINAIRE
4FT FIXTURE WITH 1 ROW LED, WIDE LENS
Light Source: (112) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

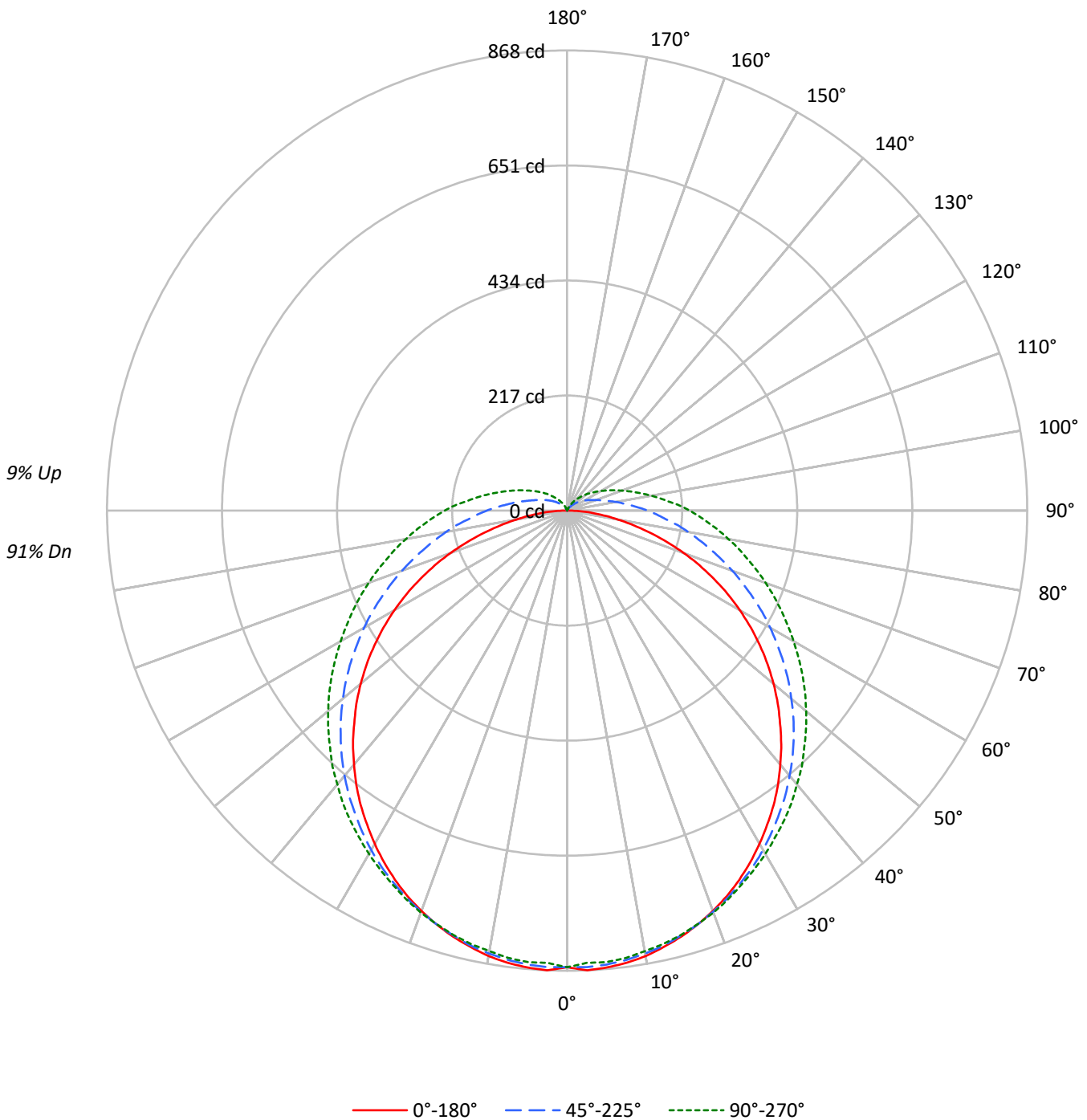
Lumens per Lamp: N/A
Luminaire Lumens: 3154.0 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 4' x H: 0.15')
CIE Type: Direct

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: P236268

CATALOG NUMBER: 4SWLED-32SL-LW-UNV-L835-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P236268

CATALOG NUMBER: 4SWLED-32SL-LW-UNV-L835-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	0	
RCR																						
0	117	117	117	117	113	113	113	113	106	106	106	100	100	100	94	94	94	94	94	94	91	
1	104	99	94	89	101	96	91	87	90	86	82	84	81	78	79	76	74	74	74	74	71	
2	94	85	77	71	91	82	75	69	77	71	66	72	68	63	68	64	61	61	61	61	58	
3	85	74	65	58	82	72	63	57	67	60	55	63	57	53	60	55	51	51	51	51	48	
4	78	65	56	49	75	63	55	48	59	52	46	56	50	45	53	47	43	43	43	43	40	
5	71	58	49	42	69	56	47	41	53	45	40	50	43	38	47	42	37	37	37	37	35	
6	66	52	43	36	63	51	42	35	48	40	34	45	39	33	43	37	32	32	32	32	30	
7	61	47	38	32	59	46	37	31	43	36	30	41	34	29	39	33	29	29	29	29	26	
8	57	43	34	28	55	42	33	28	40	32	27	38	31	26	36	30	26	26	26	26	23	
9	53	39	31	25	51	38	30	25	36	29	24	35	28	24	33	27	23	23	23	23	21	
10	50	36	28	23	48	35	28	22	34	27	22	32	26	21	31	25	21	21	21	21	19	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6179	6179	6179
5°	6211	6033	5955
10°	6177	5871	5754
15°	6121	5704	5577
20°	6057	5543	5398
25°	5982	5379	5218
30°	5891	5220	5061
35°	5798	5049	4912
40°	5685	4884	4761
45°	5561	4714	4621
50°	5438	4539	4489
55°	5279	4359	4360
60°	5080	4174	4231
65°	4813	3982	4125
70°	4464	3808	4040
75°	3949	3643	3981
80°	3335	3540	3981
85°	2604	3469	4051



TEST NUMBER: P236268

CATALOG NUMBER: 4SWLED-32SL-LW-UNV-L835-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.5	2.6
10°-20°	233.7	7.4
20°-30°	355.8	11.3
30°-40°	434.6	13.8
40°-50°	463.9	14.7
50°-60°	442.6	14.0
60°-70°	377.6	12.0
70°-80°	285.2	9.0
80°-90°	191.4	6.1
90°-100°	120.0	3.8
100°-110°	74.8	2.4
110°-120°	45.8	1.5
120°-130°	26.8	0.8
130°-140°	13.6	0.4
140°-150°	5.4	0.2
150°-160°	1.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	671.0	21.3
0°-40°	1105.7	35.1
0°-60°	2012.1	63.8
0°-90°	2866.3	90.9
90°-120°	240.6	7.6
90°-150°	286.4	9.1
90°-180°	288.0	9.1
0°-180°	3154.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	861	861	861	861	861	
5°	865	856	860	856	855	82
15°	832	823	830	828	829	235
25°	768	763	775	775	779	354
35°	679	678	698	705	713	424
45°	568	577	604	621	632	439
55°	444	461	498	526	542	397
65°	306	334	386	427	446	303
75°	162	207	279	334	352	172
85°	45	104	187	248	268	47
90°	1	71	152	211	231	3
95°	0	46	119	173	192	0
105°	0	22	73	117	134	0
115°	0	13	47	78	90	0
125°	0	7	30	51	60	0
135°	0	2	16	31	37	0
145°	0	1	7	16	20	0
155°	1	0	2	5	6	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P236268

CATALOG NUMBER: 4SWLED-32SL-LW-UNV-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	861.1	861.1	861.1	861.1	861.1
2.5°	868.1	857.9	861.9	858.7	854.0
5°	865.0	855.6	859.5	855.6	854.8
7.5°	860.3	850.9	854.8	851.6	850.9
10°	853.2	843.0	848.5	844.6	843.8
12.5°	843.0	834.4	840.6	836.7	837.5
15°	832.0	823.4	829.6	828.1	828.9
17.5°	818.6	810.8	818.6	817.1	817.9
20°	803.7	796.6	805.3	804.5	806.9
22.5°	787.2	780.1	791.1	789.6	793.5
25°	768.4	762.9	774.6	775.4	778.6
27.5°	747.9	744.0	758.1	758.9	763.6
30°	725.9	722.8	739.3	742.4	747.9
32.5°	702.4	701.6	718.9	724.4	730.6
35°	678.8	678.0	697.7	704.7	713.4
37.5°	652.9	654.4	676.4	685.9	695.3
40°	625.4	627.7	652.9	664.7	674.1
42.5°	597.9	604.2	629.3	644.2	655.2
45°	568.0	577.4	604.2	621.4	632.4
47.5°	539.0	550.0	579.0	598.7	611.2
50°	508.3	520.9	552.3	575.1	588.4
52.5°	476.9	491.0	525.6	551.5	565.7
55°	443.9	461.2	498.1	526.4	542.1
57.5°	410.9	430.5	469.8	502.8	517.7
60°	376.3	398.3	442.3	476.9	493.4
62.5°	341.8	366.9	414.8	453.3	469.0
65°	305.6	333.9	385.8	427.4	445.5
67.5°	270.3	302.5	358.3	403.0	421.9
70°	234.1	269.5	331.5	379.5	398.3
72.5°	198.0	238.1	304.8	356.7	375.5
75°	161.8	207.4	278.9	333.9	352.0
77.5°	128.1	176.8	254.5	310.3	330.8
80°	97.4	150.1	231.8	289.1	308.8
82.5°	69.1	126.5	209.8	267.9	288.3
85°	44.8	104.5	187.0	247.5	267.9
87.5°	22.0	85.6	168.9	228.6	249.0
90°	0.8	70.7	151.6	210.6	231.0
92.5°	0.0	56.6	134.3	190.9	212.9
95°	0.0	45.6	118.6	172.8	192.5
97.5°	0.0	37.7	105.3	157.9	176.8
100°	0.0	30.6	93.5	143.0	161.1
102.5°	0.0	25.9	82.5	129.6	146.9
105°	0.0	22.0	73.1	117.1	133.6
107.5°	0.0	19.6	65.2	106.1	121.0
110°	0.0	17.3	58.1	95.8	110.0



TEST NUMBER: P236268

CATALOG NUMBER: 4SWLED-32SL-LW-UNV-L835-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	14.9	51.9	86.4	99.8
115°	0.0	12.6	47.1	77.8	90.3
117.5°	0.0	11.0	42.4	69.9	81.7
120°	0.0	9.4	37.7	63.6	73.9
122.5°	0.0	7.9	33.8	57.4	66.8
125°	0.0	7.1	29.9	51.1	59.7
127.5°	0.0	5.5	26.7	45.6	54.2
130°	0.0	4.7	22.8	40.9	47.9
132.5°	0.0	3.1	19.6	36.1	42.4
135°	0.0	2.4	16.5	31.4	36.9
137.5°	0.0	1.6	14.1	27.5	32.2
140°	0.0	1.6	11.0	23.6	27.5
142.5°	0.0	0.8	8.6	19.6	23.6
145°	0.0	0.8	7.1	15.7	19.6
147.5°	0.8	0.0	4.7	12.6	15.7
150°	0.8	0.0	3.9	9.4	12.6
152.5°	0.8	0.0	2.4	7.1	9.4
155°	0.8	0.0	1.6	4.7	6.3
157.5°	0.8	0.8	0.8	2.4	3.9
160°	0.8	0.0	0.0	1.6	2.4
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)