

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: P236271

Luminaire Tested: **4SWLED-36SL-LW-UNV-L835-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P236271
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-36SL-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

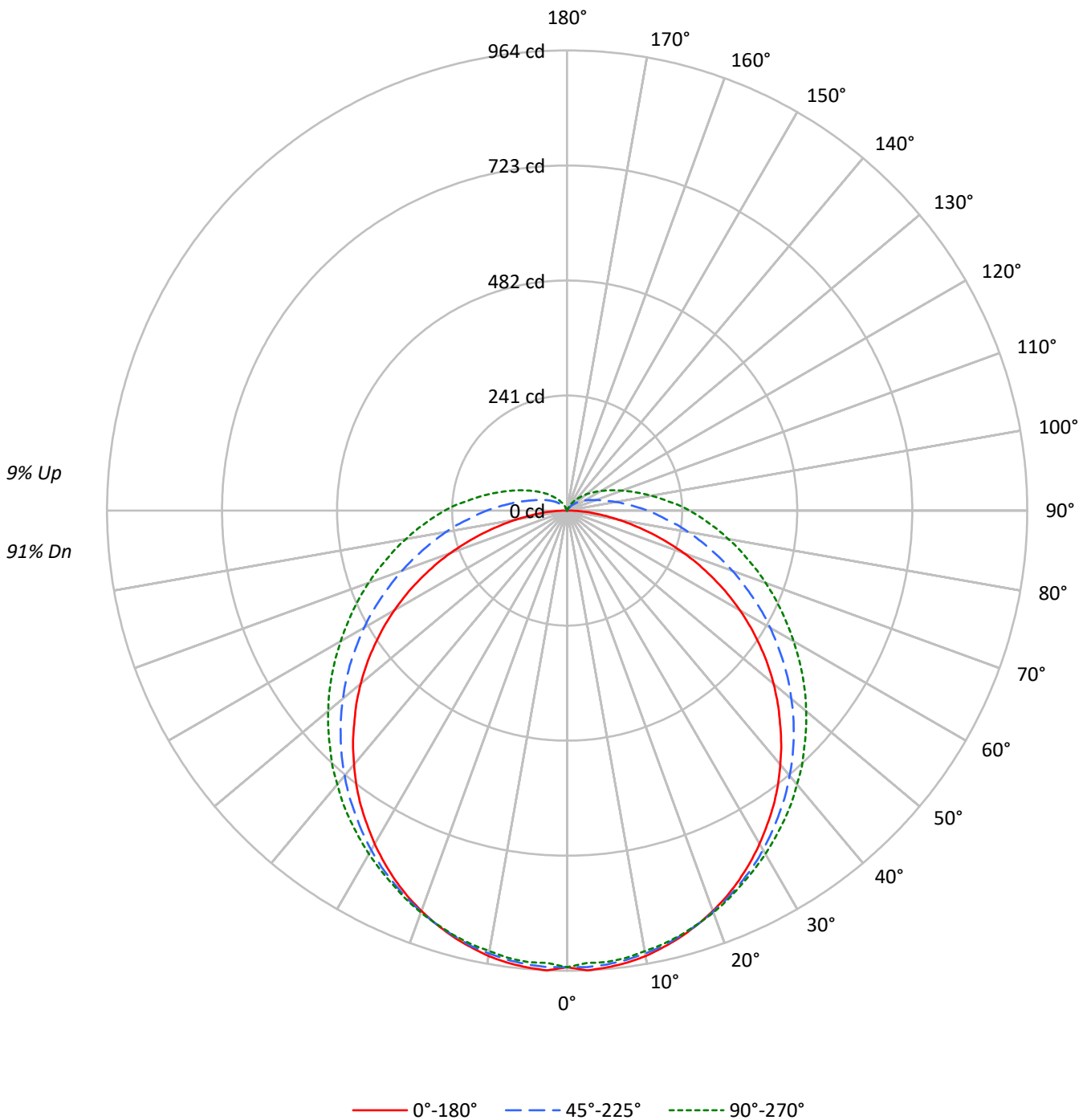
Lumens per Lamp: N/A
Luminaire Lumens: 3503.0 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 4' x H: 0.15')
CIE Type: Direct

Input Watts (W): 32.8
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

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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	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°	6862	6862	6862
5°	6898	6700	6614
10°	6861	6521	6390
15°	6799	6335	6194
20°	6727	6156	5995
25°	6644	5975	5796
30°	6543	5797	5621
35°	6440	5607	5455
40°	6314	5424	5288
45°	6177	5235	5132
50°	6041	5041	4986
55°	5863	4841	4843
60°	5643	4636	4699
65°	5345	4422	4581
70°	4958	4230	4487
75°	4388	4047	4421
80°	3705	3931	4421
85°	2888	3854	4499



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.5	2.6
10°-20°	259.6	7.4
20°-30°	395.2	11.3
30°-40°	482.7	13.8
40°-50°	515.2	14.7
50°-60°	491.6	14.0
60°-70°	419.3	12.0
70°-80°	316.8	9.0
80°-90°	212.6	6.1
90°-100°	133.3	3.8
100°-110°	83.0	2.4
110°-120°	50.9	1.5
120°-130°	29.7	0.8
130°-140°	15.1	0.4
140°-150°	6.0	0.2
150°-160°	1.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	745.3	21.3
0°-40°	1228.0	35.1
0°-60°	2234.8	63.8
0°-90°	3183.5	90.9
90°-120°	267.2	7.6
90°-150°	318.1	9.1
90°-180°	320.0	9.1
0°-180°	3503.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	956	956	956	956	956	
5°	961	950	955	950	949	91
15°	924	914	921	920	921	261
25°	853	847	860	861	865	393
35°	754	753	775	783	792	471
45°	631	641	671	690	702	487
55°	493	512	553	585	602	441
65°	339	371	428	475	495	336
75°	180	230	310	371	391	191
85°	50	116	208	275	298	52
90°	1	78	168	234	256	4
95°	0	51	132	192	214	0
105°	0	24	81	130	148	0
115°	0	14	52	86	100	0
125°	0	8	33	57	66	0
135°	0	3	18	35	41	0
145°	0	1	8	18	22	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



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	956.3	956.3	956.3	956.3	956.3
2.5°	964.2	952.9	957.2	953.7	948.5
5°	960.7	950.2	954.6	950.2	949.4
7.5°	955.5	945.0	949.4	945.9	945.0
10°	947.6	936.3	942.4	938.0	937.1
12.5°	936.3	926.7	933.7	929.3	930.2
15°	924.1	914.5	921.4	919.7	920.6
17.5°	909.2	900.5	909.2	907.5	908.4
20°	892.6	884.8	894.4	893.5	896.1
22.5°	874.3	866.5	878.7	876.9	881.3
25°	853.4	847.3	860.4	861.2	864.7
27.5°	830.7	826.3	842.0	842.9	848.1
30°	806.3	802.8	821.1	824.6	830.7
32.5°	780.1	779.2	798.4	804.5	811.5
35°	753.9	753.0	774.8	782.7	792.3
37.5°	725.1	726.9	751.3	761.8	772.2
40°	694.6	697.2	725.1	738.2	748.7
42.5°	664.0	671.0	698.9	715.5	727.7
45°	630.9	641.3	671.0	690.2	702.4
47.5°	598.6	610.8	643.1	664.9	678.9
50°	564.6	578.5	613.4	638.7	653.6
52.5°	529.7	545.4	583.8	612.6	628.3
55°	493.0	512.2	553.2	584.6	602.1
57.5°	456.4	478.2	521.8	558.5	575.0
60°	418.0	442.4	491.3	529.7	548.0
62.5°	379.6	407.5	460.7	503.5	520.9
65°	339.4	370.8	428.4	474.7	494.8
67.5°	300.2	335.9	397.9	447.6	468.6
70°	260.0	299.3	368.2	421.5	442.4
72.5°	219.9	264.4	338.6	396.2	417.1
75°	179.8	230.4	309.8	370.8	390.9
77.5°	142.2	196.3	282.7	344.7	367.4
80°	108.2	166.7	257.4	321.1	342.9
82.5°	76.8	140.5	233.0	297.5	320.2
85°	49.7	116.1	207.7	274.9	297.5
87.5°	24.4	95.1	187.6	253.9	276.6
90°	0.9	78.5	168.4	233.9	256.5
92.5°	0.0	62.8	149.2	212.0	236.5
95°	0.0	50.6	131.8	192.0	213.8
97.5°	0.0	41.9	116.9	175.4	196.3
100°	0.0	34.0	103.8	158.8	178.9
102.5°	0.0	28.8	91.6	144.0	163.2
105°	0.0	24.4	81.1	130.0	148.3
107.5°	0.0	21.8	72.4	117.8	134.4
110°	0.0	19.2	64.6	106.5	122.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	16.6	57.6	96.0	110.8
115°	0.0	14.0	52.4	86.4	100.3
117.5°	0.0	12.2	47.1	77.7	90.7
120°	0.0	10.5	41.9	70.7	82.0
122.5°	0.0	8.7	37.5	63.7	74.2
125°	0.0	7.9	33.2	56.7	66.3
127.5°	0.0	6.1	29.7	50.6	60.2
130°	0.0	5.2	25.3	45.4	53.2
132.5°	0.0	3.5	21.8	40.1	47.1
135°	0.0	2.6	18.3	34.9	41.0
137.5°	0.0	1.7	15.7	30.5	35.8
140°	0.0	1.7	12.2	26.2	30.5
142.5°	0.0	0.9	9.6	21.8	26.2
145°	0.0	0.9	7.9	17.5	21.8
147.5°	0.9	0.0	5.2	14.0	17.5
150°	0.9	0.0	4.4	10.5	14.0
152.5°	0.9	0.0	2.6	7.9	10.5
155°	0.9	0.0	1.7	5.2	7.0
157.5°	0.9	0.9	0.9	2.6	4.4
160°	0.9	0.0	0.0	1.7	2.6
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)