

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: P232435

Luminaire Tested: **2SRS-16-W-UNV-L850-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P232435
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1706-124-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2SRS-16-W-UNV-L850-CD1-U
Description: WAVESTREAM LED RECESSED 2 FT FIXTURE
Light Source: -
Ballast/Driver: -

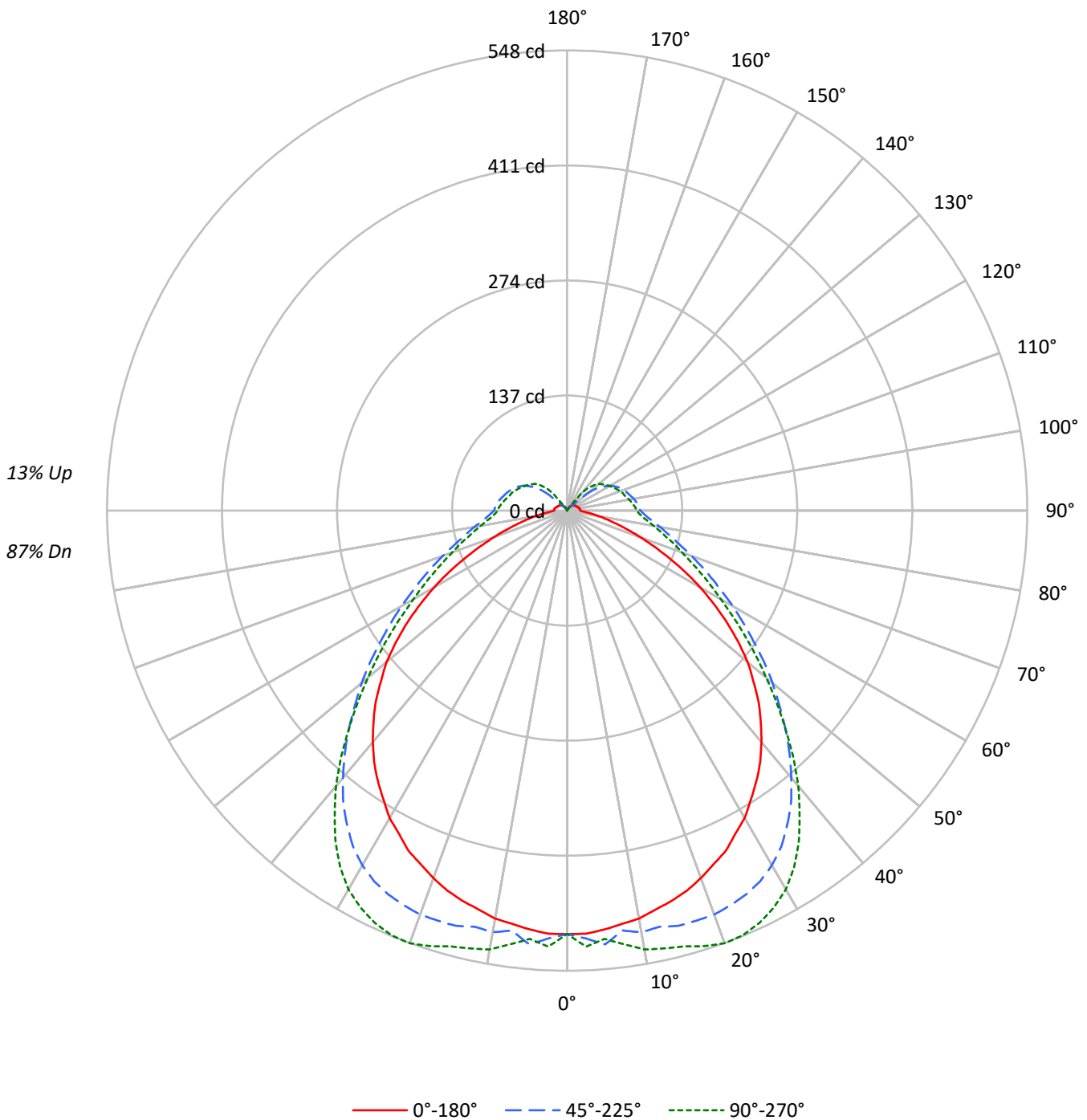
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1835.3 lumens
Efficiency: N/A
Efficacy: 149.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.44 / 1.43
Luminous Opening: Rectangular w/ Sides (W: 0.02' x L: 1.88' x H: 0.3')
CIE Type: Semi-Direct

Input Watts (W): 12.3
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	50	30	10	0	
RCR																						
0	116	116	116	116	112	112	112	112	104	104	104	97	97	97	90	90	90	87				
1	105	99	95	90	100	96	92	88	89	86	83	83	80	78	77	75	73	70				
2	95	86	79	73	91	83	77	71	78	72	68	72	68	64	67	64	61	58				
3	87	76	68	61	83	73	66	60	68	62	57	64	59	54	60	55	52	49				
4	79	67	58	52	76	65	57	51	61	54	48	57	51	46	53	48	44	42				
5	73	60	51	44	70	58	50	44	54	47	42	51	45	40	48	43	39	36				
6	67	54	45	39	64	52	44	38	49	42	37	46	40	35	44	38	34	32				
7	62	49	40	34	60	47	39	34	45	38	32	42	36	31	40	34	30	28				
8	58	45	36	30	56	43	35	30	41	34	29	39	32	28	37	31	27	25				
9	54	41	33	27	52	40	32	27	38	31	26	36	30	25	34	28	24	22				
10	51	38	30	25	49	37	29	24	35	28	24	33	27	23	31	26	22	20				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	184798	184798	184798
5°	181785	87180	70630
10°	178597	55881	45305
15°	175126	41871	33394
20°	171761	33596	26952
25°	168370	27807	22163
30°	163991	23342	18368
35°	158387	19449	15010
40°	152110	16019	12063
45°	144437	13069	9505
50°	134785	10592	7442
55°	121162	8483	5835
60°	105262	6811	4558
65°	87052	5452	3628
70°	69176	4402	2919
75°	54040	3589	2400
80°	42917	3037	2025
85°	34688	2608	1736



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.8	2.7
10°-20°	144.5	7.9
20°-30°	229.7	12.5
30°-40°	278.5	15.2
40°-50°	274.0	14.9
50°-60°	230.7	12.6
60°-70°	173.0	9.4
70°-80°	123.1	6.7
80°-90°	89.5	4.9
90°-100°	75.6	4.1
100°-110°	65.0	3.5
110°-120°	49.5	2.7
120°-130°	33.6	1.8
130°-140°	16.1	0.9
140°-150°	3.0	0.2
150°-160°	0.7	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	423.0	23.0
0°-40°	701.4	38.2
0°-60°	1206.1	65.7
0°-90°	1591.8	86.7
90°-120°	190.1	10.4
90°-150°	242.7	13.2
90°-180°	244.0	13.3
0°-180°	1835.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	504	504	504	504	504	
5°	501	506	519	514	512	48
15°	481	487	512	534	537	136
25°	447	464	504	535	542	205
35°	393	414	457	479	481	246
45°	323	337	368	372	368	248
55°	232	250	271	263	258	207
65°	134	171	189	180	175	134
75°	61	113	131	126	122	66
85°	23	79	97	91	90	22
90°	15	69	87	83	83	9
95°	15	67	85	79	79	12
105°	14	56	76	72	70	15
115°	12	31	66	64	63	12
125°	11	14	48	55	54	10
135°	9	10	8	37	41	7
145°	7	7	4	1	0	4
155°	3	3	1	0	0	2
165°	1	1	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°	504.3	504.3	504.3	504.3	504.3
2.5°	504.3	502.1	509.8	518.6	519.7
5°	501.0	506.5	518.6	514.2	512.0
7.5°	496.6	509.8	504.3	520.8	520.8
10°	493.3	502.1	509.8	521.9	530.7
12.5°	486.6	490.0	507.6	526.3	534.0
15°	481.1	486.6	512.0	534.0	537.3
17.5°	474.5	483.3	512.0	537.3	543.9
20°	465.7	477.8	512.0	537.3	548.3
22.5°	455.8	470.1	508.7	538.4	547.2
25°	447.0	463.5	504.3	535.1	541.7
27.5°	433.8	454.7	497.7	526.3	532.9
30°	422.8	442.6	487.7	513.1	520.8
32.5°	407.4	428.3	474.5	498.8	503.2
35°	393.1	414.0	456.9	478.9	481.1
37.5°	377.6	397.5	438.2	454.7	454.7
40°	360.0	377.6	415.1	428.3	428.3
42.5°	341.3	357.8	392.0	400.8	398.6
45°	322.6	336.9	367.7	372.1	367.7
47.5°	300.6	314.9	342.4	344.6	338.0
50°	280.8	292.9	319.3	316.0	309.4
52.5°	256.5	270.8	295.1	288.5	283.0
55°	232.3	249.9	270.8	263.1	257.6
57.5°	207.0	229.0	248.8	240.0	233.4
60°	182.8	208.1	227.9	218.0	211.4
62.5°	158.5	188.3	207.0	197.1	192.7
65°	134.3	170.7	189.4	179.5	175.1
67.5°	112.3	153.0	172.9	164.1	159.6
70°	92.5	138.7	157.4	148.6	145.3
72.5°	76.0	125.5	143.1	136.5	134.3
75°	60.6	113.4	131.0	125.5	122.2
77.5°	48.4	102.4	121.1	115.6	113.4
80°	38.5	93.6	112.3	105.7	104.6
82.5°	29.7	85.9	103.5	98.0	96.9
85°	23.1	79.3	96.9	91.4	90.3
87.5°	17.6	73.8	91.4	85.9	85.9
90°	15.4	69.4	87.0	82.6	82.6
92.5°	15.4	68.3	85.9	81.5	81.5
95°	15.4	67.2	84.8	79.3	79.3
97.5°	15.4	65.0	82.6	77.1	77.1
100°	14.3	61.7	80.4	74.9	74.9
102.5°	14.3	59.5	78.2	73.8	72.7
105°	14.3	56.2	76.0	71.6	70.5
107.5°	13.2	51.7	73.8	69.4	69.4
110°	13.2	47.3	71.6	68.3	67.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	12.1	40.7	69.4	66.1	65.0
115°	12.1	30.8	66.1	63.9	62.8
117.5°	12.1	23.1	62.8	61.7	60.6
120°	11.0	17.6	59.5	59.5	58.4
122.5°	11.0	16.5	53.9	57.3	56.2
125°	11.0	14.3	48.4	55.1	53.9
127.5°	9.9	13.2	41.8	52.8	51.7
130°	9.9	12.1	33.0	48.4	49.5
132.5°	8.8	11.0	17.6	42.9	45.1
135°	8.8	9.9	7.7	37.4	40.7
137.5°	7.7	8.8	6.6	28.6	35.2
140°	7.7	7.7	5.5	14.3	27.5
142.5°	6.6	6.6	4.4	1.1	9.9
145°	6.6	6.6	4.4	1.1	0.0
147.5°	5.5	5.5	3.3	0.0	0.0
150°	4.4	4.4	2.2	0.0	0.0
152.5°	4.4	3.3	2.2	0.0	0.0
155°	3.3	3.3	1.1	0.0	0.0
157.5°	3.3	2.2	1.1	0.0	0.0
160°	2.2	2.2	1.1	0.0	0.0
162.5°	1.1	1.1	0.0	0.0	0.0
165°	1.1	1.1	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)