

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: P232447

Luminaire Tested: **2SRS-28-W-UNV-L850-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P232447
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-28-W-UNV-L850-CD1-U
Description: WAVESTREAM LED RECESSED 2 FT FIXTURE
Light Source: -
Ballast/Driver: -

Summary

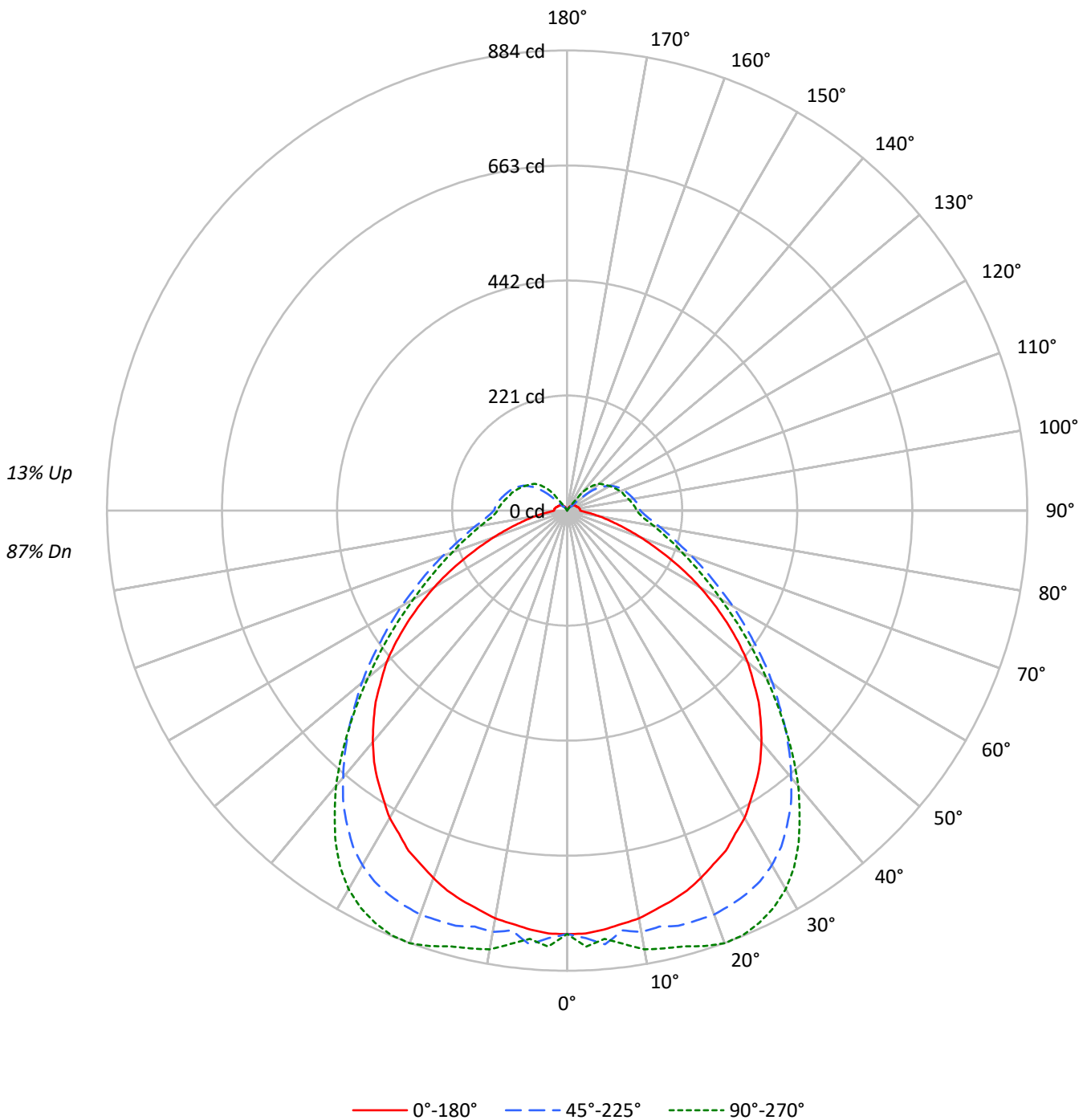
Lumens per Lamp: N/A
Luminaire Lumens: 2960.1 lumens
Efficiency: N/A
Efficacy: 139.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.44 / 1.43
Luminous Opening: Rectangular w/ Sides (W: 0.02' x L: 1.88' x H: 0.3')
CIE Type: Semi-Direct

Input Watts (W): 21.3
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	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°	298029	298029	298029
5°	293179	140605	113904
10°	288043	90124	73066
15°	282473	67526	53860
20°	277060	54180	43469
25°	271577	44845	35746
30°	264488	37653	29622
35°	255451	31372	24211
40°	245362	25837	19457
45°	232952	21080	15331
50°	217346	17085	12003
55°	195435	13683	9412
60°	169755	10986	7352
65°	140398	8791	5851
70°	111580	7100	4709
75°	87125	5788	3871
80°	69337	4898	3265
85°	56012	4206	2799



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.7	2.7
10°-20°	233.1	7.9
20°-30°	370.4	12.5
30°-40°	449.1	15.2
40°-50°	442.0	14.9
50°-60°	372.1	12.6
60°-70°	279.0	9.4
70°-80°	198.6	6.7
80°-90°	144.4	4.9
90°-100°	121.9	4.1
100°-110°	104.7	3.5
110°-120°	79.8	2.7
120°-130°	54.2	1.8
130°-140°	25.9	0.9
140°-150°	4.9	0.2
150°-160°	1.2	0.0
160°-170°	0.2	0.0
170°-180°	0.0	0.0
0°-30°	682.2	23.0
0°-40°	1131.3	38.2
0°-60°	1945.3	65.7
0°-90°	2567.3	86.7
90°-120°	306.4	10.4
90°-150°	391.4	13.2
90°-180°	393.0	13.3
0°-180°	2960.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	813	813	813	813	813	
5°	808	817	836	829	826	77
15°	776	785	826	861	867	219
25°	721	748	813	863	874	331
35°	634	668	737	772	776	396
45°	520	543	593	600	593	400
55°	375	403	437	424	416	334
65°	217	275	305	290	282	216
75°	98	183	211	202	197	107
85°	37	128	156	147	146	36
90°	25	112	140	133	133	14
95°	25	108	137	128	128	20
105°	23	91	122	115	114	24
115°	20	50	106	103	101	19
125°	18	23	78	89	87	15
135°	14	16	12	60	66	11
145°	11	11	7	2	0	6
155°	5	5	2	0	0	3
165°	2	2	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°	813.3	813.3	813.3	813.3	813.3
2.5°	813.3	809.8	822.2	836.4	838.2
5°	808.0	816.9	836.4	829.3	825.7
7.5°	800.9	822.2	813.3	839.9	839.9
10°	795.6	809.8	822.2	841.7	855.9
12.5°	784.9	790.2	818.6	848.8	861.3
15°	776.0	784.9	825.7	861.3	866.6
17.5°	765.4	779.6	825.7	866.6	877.2
20°	751.2	770.7	825.7	866.6	884.3
22.5°	735.2	758.3	820.4	868.4	882.6
25°	721.0	747.6	813.3	863.0	873.7
27.5°	699.7	733.4	802.7	848.8	859.5
30°	681.9	713.9	786.7	827.5	839.9
32.5°	657.0	690.8	765.4	804.4	811.5
35°	634.0	667.7	737.0	772.5	776.0
37.5°	609.1	641.1	706.8	733.4	733.4
40°	580.7	609.1	669.5	690.8	690.8
42.5°	550.5	577.1	632.2	646.4	642.8
45°	520.3	543.4	593.1	600.2	593.1
47.5°	484.8	507.9	552.3	555.8	545.2
50°	452.8	472.4	515.0	509.7	499.0
52.5°	413.8	436.8	475.9	465.3	456.4
55°	374.7	403.1	436.8	424.4	415.5
57.5°	333.8	369.4	401.3	387.1	376.5
60°	294.8	335.6	367.6	351.6	341.0
62.5°	255.7	303.7	333.8	317.9	310.8
65°	216.6	275.2	305.4	289.5	282.4
67.5°	181.1	246.8	278.8	264.6	257.5
70°	149.2	223.7	253.9	239.7	234.4
72.5°	122.5	202.4	230.9	220.2	216.6
75°	97.7	182.9	211.3	202.4	197.1
77.5°	78.1	165.1	195.3	186.5	182.9
80°	62.2	150.9	181.1	170.5	168.7
82.5°	47.9	138.5	166.9	158.0	156.3
85°	37.3	127.9	156.3	147.4	145.6
87.5°	28.4	119.0	147.4	138.5	138.5
90°	24.9	111.9	140.3	133.2	133.2
92.5°	24.9	110.1	138.5	131.4	131.4
95°	24.9	108.3	136.7	127.9	127.9
97.5°	24.9	104.8	133.2	124.3	124.3
100°	23.1	99.4	129.6	120.8	120.8
102.5°	23.1	95.9	126.1	119.0	117.2
105°	23.1	90.6	122.5	115.4	113.7
107.5°	21.3	83.5	119.0	111.9	111.9
110°	21.3	76.4	115.4	110.1	108.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	19.5	65.7	111.9	106.5	104.8
115°	19.5	49.7	106.5	103.0	101.2
117.5°	19.5	37.3	101.2	99.4	97.7
120°	17.8	28.4	95.9	95.9	94.1
122.5°	17.8	26.6	87.0	92.3	90.6
125°	17.8	23.1	78.1	88.8	87.0
127.5°	16.0	21.3	67.5	85.2	83.5
130°	16.0	19.5	53.3	78.1	79.9
132.5°	14.2	17.8	28.4	69.3	72.8
135°	14.2	16.0	12.4	60.4	65.7
137.5°	12.4	14.2	10.7	46.2	56.8
140°	12.4	12.4	8.9	23.1	44.4
142.5°	10.7	10.7	7.1	1.8	16.0
145°	10.7	10.7	7.1	1.8	0.0
147.5°	8.9	8.9	5.3	0.0	0.0
150°	7.1	7.1	3.6	0.0	0.0
152.5°	7.1	5.3	3.6	0.0	0.0
155°	5.3	5.3	1.8	0.0	0.0
157.5°	5.3	3.6	1.8	0.0	0.0
160°	3.6	3.6	1.8	0.0	0.0
162.5°	1.8	1.8	0.0	0.0	0.0
165°	1.8	1.8	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)