

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: P232443

Luminaire Tested: **2SRS-24-W-UNV-L850-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P232443
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-24-W-UNV-L850-CD1-U
Description: WAVESTREAM LED RECESSED 2 FT FIXTURE
Light Source: -
Ballast/Driver: -

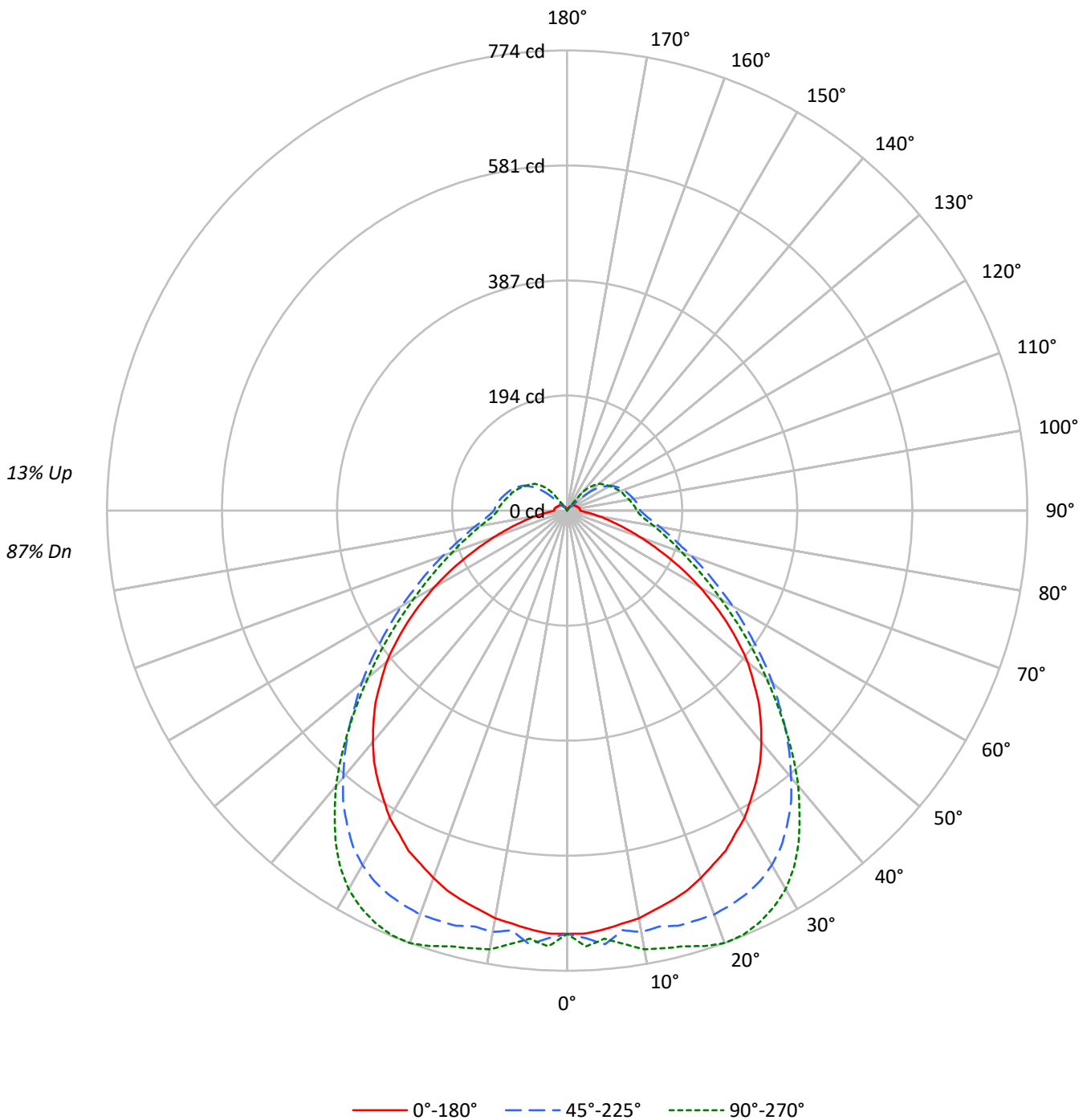
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2591.2 lumens
Efficiency: N/A
Efficacy: 145.6 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): 17.8
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

TEST NUMBER: P232443
CATALOG NUMBER: 2SRS-24-W-UNV-L850-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P232443

CATALOG NUMBER: 2SRS-24-W-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	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°	260908	260908	260908
5°	256640	123088	99709
10°	252128	78889	63966
15°	247273	59110	47148
20°	242501	47428	38052
25°	237715	39259	31291
30°	231519	32957	25933
35°	223620	27460	21194
40°	214771	22614	17032
45°	203939	18454	13421
50°	190274	14955	10506
55°	171077	11979	8238
60°	148565	9617	6436
65°	122897	7697	5122
70°	97670	6217	4122
75°	76245	5068	3388
80°	60642	4290	2859
85°	48954	3682	2451



TEST NUMBER: P232443

CATALOG NUMBER: 2SRS-24-W-UNV-L850-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.9	2.7
10°-20°	204.0	7.9
20°-30°	324.3	12.5
30°-40°	393.1	15.2
40°-50°	386.9	14.9
50°-60°	325.7	12.6
60°-70°	244.2	9.4
70°-80°	173.9	6.7
80°-90°	126.4	4.9
90°-100°	106.7	4.1
100°-110°	91.7	3.5
110°-120°	69.9	2.7
120°-130°	47.4	1.8
130°-140°	22.7	0.9
140°-150°	4.2	0.2
150°-160°	1.1	0.0
160°-170°	0.2	0.0
170°-180°	0.0	0.0
0°-30°	597.2	23.0
0°-40°	990.3	38.2
0°-60°	1702.9	65.7
0°-90°	2247.4	86.7
90°-120°	268.2	10.4
90°-150°	342.6	13.2
90°-180°	344.0	13.3
0°-180°	2591.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	712	712	712	712	712	
5°	707	715	732	726	723	67
15°	679	687	723	754	759	192
25°	631	654	712	756	765	290
35°	555	584	645	676	679	347
45°	456	476	519	525	519	350
55°	328	353	382	372	364	293
65°	190	241	267	253	247	189
75°	86	160	185	177	172	93
85°	33	112	137	129	128	31
90°	22	98	123	117	117	12
95°	22	95	120	112	112	18
105°	20	79	107	101	100	21
115°	17	44	93	90	89	17
125°	16	20	68	78	76	13
135°	12	14	11	53	58	9
145°	9	9	6	2	0	6
155°	5	5	2	0	0	2
165°	2	2	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P232443

CATALOG NUMBER: 2SRS-24-W-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	712.0	712.0	712.0	712.0	712.0
2.5°	712.0	708.8	719.7	732.2	733.7
5°	707.3	715.1	732.2	725.9	722.8
7.5°	701.1	719.7	712.0	735.3	735.3
10°	696.4	708.8	719.7	736.8	749.3
12.5°	687.1	691.7	716.6	743.0	753.9
15°	679.3	687.1	722.8	753.9	758.6
17.5°	670.0	682.4	722.8	758.6	767.9
20°	657.5	674.6	722.8	758.6	774.1
22.5°	643.6	663.8	718.2	760.1	772.6
25°	631.1	654.4	712.0	755.5	764.8
27.5°	612.5	642.0	702.6	743.0	752.4
30°	596.9	624.9	688.6	724.4	735.3
32.5°	575.2	604.7	670.0	704.2	710.4
35°	555.0	584.5	645.1	676.2	679.3
37.5°	533.2	561.2	618.7	642.0	642.0
40°	508.3	533.2	586.0	604.7	604.7
42.5°	481.9	505.2	553.4	565.8	562.7
45°	455.5	475.7	519.2	525.4	519.2
47.5°	424.4	444.6	483.4	486.6	477.2
50°	396.4	413.5	450.8	446.1	436.8
52.5°	362.2	382.4	416.6	407.3	399.5
55°	328.0	352.9	382.4	371.5	363.7
57.5°	292.2	323.3	351.3	338.9	329.6
60°	258.0	293.8	321.8	307.8	298.5
62.5°	223.8	265.8	292.2	278.3	272.0
65°	189.6	240.9	267.4	253.4	247.2
67.5°	158.6	216.1	244.1	231.6	225.4
70°	130.6	195.9	222.3	209.9	205.2
72.5°	107.3	177.2	202.1	192.8	189.6
75°	85.5	160.1	185.0	177.2	172.5
77.5°	68.4	144.6	171.0	163.2	160.1
80°	54.4	132.1	158.6	149.2	147.7
82.5°	42.0	121.2	146.1	138.3	136.8
85°	32.6	111.9	136.8	129.0	127.5
87.5°	24.9	104.2	129.0	121.2	121.2
90°	21.8	97.9	122.8	116.6	116.6
92.5°	21.8	96.4	121.2	115.0	115.0
95°	21.8	94.8	119.7	111.9	111.9
97.5°	21.8	91.7	116.6	108.8	108.8
100°	20.2	87.1	113.5	105.7	105.7
102.5°	20.2	83.9	110.4	104.2	102.6
105°	20.2	79.3	107.3	101.0	99.5
107.5°	18.7	73.1	104.2	97.9	97.9
110°	18.7	66.8	101.0	96.4	94.8



TEST NUMBER: P232443

CATALOG NUMBER: 2SRS-24-W-UNV-L850-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	17.1	57.5	97.9	93.3	91.7
115°	17.1	43.5	93.3	90.2	88.6
117.5°	17.1	32.6	88.6	87.1	85.5
120°	15.5	24.9	83.9	83.9	82.4
122.5°	15.5	23.3	76.2	80.8	79.3
125°	15.5	20.2	68.4	77.7	76.2
127.5°	14.0	18.7	59.1	74.6	73.1
130°	14.0	17.1	46.6	68.4	70.0
132.5°	12.4	15.5	24.9	60.6	63.7
135°	12.4	14.0	10.9	52.9	57.5
137.5°	10.9	12.4	9.3	40.4	49.7
140°	10.9	10.9	7.8	20.2	38.9
142.5°	9.3	9.3	6.2	1.6	14.0
145°	9.3	9.3	6.2	1.6	0.0
147.5°	7.8	7.8	4.7	0.0	0.0
150°	6.2	6.2	3.1	0.0	0.0
152.5°	6.2	4.7	3.1	0.0	0.0
155°	4.7	4.7	1.6	0.0	0.0
157.5°	4.7	3.1	1.6	0.0	0.0
160°	3.1	3.1	1.6	0.0	0.0
162.5°	1.6	1.6	0.0	0.0	0.0
165°	1.6	1.6	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)