

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: FAIL-SAFE

Report Number: P412084

Luminaire Tested: **MRI-2ASR-2-500-L850-HEO**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412084
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2006-829-1)
Test Lab: INNOVATION CENTER
Issue Date: 10/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: MRI-2ASR-2-500-L850-HEO
Description: 2 FT, 2 INCH CHANNEL, HIGH EFFICIENCY LENS
Light Source: (98) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2863.0 lumens
Efficiency: N/A
Efficacy: 133.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.17 / 1.32
Luminous Opening: Rectangular (W 0.17' x L: 2' x H: 0')
CIE Type: Direct

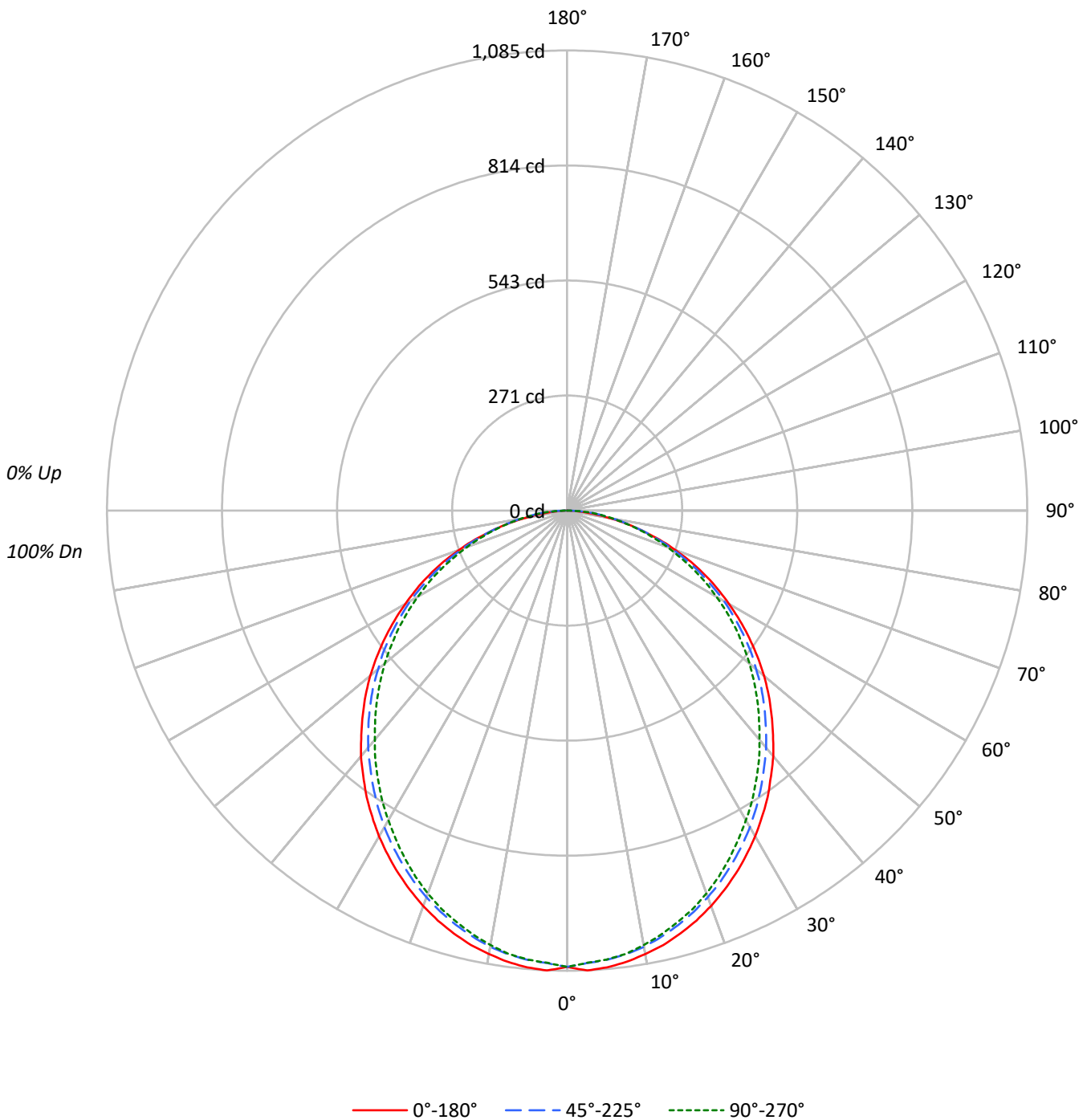
Input Watts (W): 21.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P412084

CATALOG NUMBER: MRI-2ASR-2-500-L850-HEO

Luminous Intensity Polar Plot





TEST NUMBER: P412084

CATALOG NUMBER: MRI-2ASR-2-500-L850-HEO

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	98	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	75	72	70
3	90	80	72	65	88	78	71	65	75	69	63	72	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	34743	34743	34743
5°	35041	34470	34447
10°	34813	34246	34101
15°	34507	33825	33588
20°	34093	33337	33010
25°	33595	32751	32242
30°	33070	32134	31441
35°	32503	31407	30618
40°	31881	30764	29735
45°	31131	30031	28976
50°	30444	29218	28213
55°	29534	28482	27316
60°	28443	27564	26227
65°	27354	26338	25177
70°	25567	24793	23707
75°	22857	22907	22096
80°	18801	20567	20381
85°	12708	19600	20230



TEST NUMBER: P412084

CATALOG NUMBER: MRI-2ASR-2-500-L850-HEO

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.5	3.5
10°-20°	286.8	10.0
20°-30°	425.2	14.9
30°-40°	500.0	17.5
40°-50°	507.9	17.7
50°-60°	451.8	15.8
60°-70°	340.7	11.9
70°-80°	193.6	6.8
80°-90°	55.5	1.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	813.5	28.4
0°-40°	1313.5	45.9
0°-60°	2273.2	79.4
0°-90°	2863.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2863.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1076	1076	1076	1076	1076	
5°	1081	1074	1063	1071	1063	103
15°	1032	1024	1012	1016	1005	291
25°	943	933	919	916	905	434
35°	824	813	797	786	777	515
45°	682	673	658	644	634	526
55°	525	519	506	492	485	469
65°	358	356	345	334	330	354
75°	183	186	184	178	177	195
85°	34	47	53	53	55	44
90°	0	0	0	0	0	



TEST NUMBER: P412084

CATALOG NUMBER: MRI-2ASR-2-500-L850-HEO

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1075.9	1075.9	1075.9	1075.9	1075.9
2.5°	1085.4	1078.0	1068.1	1076.3	1067.5
5°	1081.0	1073.6	1063.4	1071.2	1062.7
7.5°	1073.2	1065.8	1055.6	1062.7	1054.6
10°	1061.7	1054.9	1044.4	1050.2	1040.0
12.5°	1049.1	1040.3	1029.1	1034.2	1024.0
15°	1032.2	1024.0	1011.8	1015.5	1004.7
17.5°	1013.5	1004.0	992.1	994.2	985.0
20°	992.1	982.6	970.1	970.8	960.6
22.5°	968.4	959.6	946.0	943.6	934.1
25°	942.9	933.1	919.2	915.8	904.9
27.5°	915.4	906.3	891.4	885.9	874.4
30°	886.9	876.1	861.8	853.7	843.2
32.5°	855.7	845.9	829.9	819.8	811.6
35°	824.5	813.3	796.7	786.5	776.7
37.5°	789.2	778.7	763.1	752.9	743.1
40°	756.3	744.8	729.8	717.3	705.4
42.5°	718.3	710.2	693.9	681.3	669.8
45°	681.7	673.2	657.6	644.3	634.5
47.5°	644.7	636.2	621.3	607.0	597.5
50°	606.0	596.8	581.6	569.0	561.6
52.5°	565.6	559.2	545.6	531.4	522.9
55°	524.6	519.1	505.9	491.7	485.2
57.5°	483.2	478.8	466.5	453.0	446.5
60°	440.4	438.4	426.8	414.0	406.1
62.5°	400.0	397.0	385.1	375.6	368.5
65°	358.0	355.6	344.7	333.9	329.5
67.5°	315.6	312.8	302.7	295.2	288.4
70°	270.8	270.8	262.6	255.5	251.1
72.5°	228.4	228.7	223.3	215.8	213.8
75°	183.2	185.9	183.6	178.5	177.1
77.5°	143.2	145.6	145.9	144.2	141.8
80°	101.1	107.9	110.6	110.3	109.6
82.5°	64.8	75.7	80.8	80.4	81.1
85°	34.3	47.2	52.9	52.9	54.6
87.5°	11.9	24.1	25.8	23.8	22.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)