

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: P412082

Luminaire Tested: **MRI-2ASR-2-500-L840-HEO**

Issue Date: 10/5/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P412082  
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-L840-HEO  
Description: 2 FT, 2 INCH CHANNEL, HIGH EFFICIENCY LENS  
Light Source: (98) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2661.0 lumens  
Efficiency: N/A  
Efficacy: 124.3 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

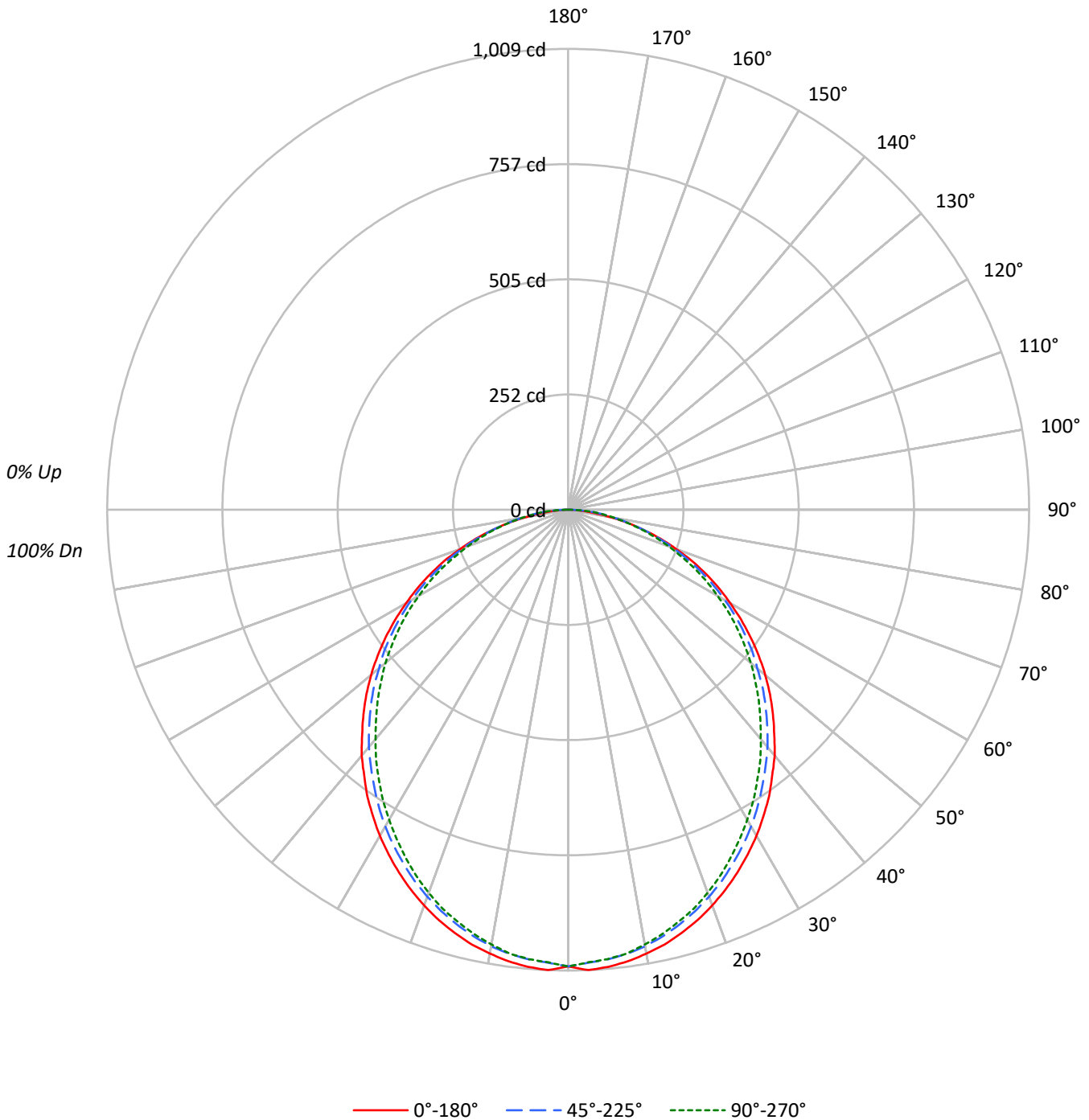
Input Watts (W): 21.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P412082

CATALOG NUMBER: MRI-2ASR-2-500-L840-HEO

### Luminous Intensity Polar Plot





TEST NUMBER: P412082

CATALOG NUMBER: MRI-2ASR-2-500-L840-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°	32292	32292	32292
5°	32571	32039	32016
10°	32357	31829	31695
15°	32070	31438	31218
20°	31687	30983	30680
25°	31226	30439	29968
30°	30740	29867	29222
35°	30208	29191	28458
40°	29634	28597	27636
45°	28935	27912	26930
50°	28293	27153	26219
55°	27451	26472	25391
60°	26434	25620	24380
65°	25421	24481	23396
70°	23764	23047	22036
75°	21248	21285	20536
80°	17480	19117	18949
85°	11819	18229	18822



TEST NUMBER: P412082

CATALOG NUMBER: MRI-2ASR-2-500-L840-HEO

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.3	3.5
10°-20°	266.6	10.0
20°-30°	395.2	14.9
30°-40°	464.7	17.5
40°-50°	472.1	17.7
50°-60°	419.9	15.8
60°-70°	316.7	11.9
70°-80°	179.9	6.8
80°-90°	51.5	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°	756.1	28.4
0°-40°	1220.8	45.9
0°-60°	2112.8	79.4
0°-90°	2661.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2661.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1000	1000	1000	1000	1000	
5°	1005	998	988	996	988	95
15°	959	952	940	944	934	271
25°	876	867	854	851	841	404
35°	766	756	740	731	722	479
45°	634	626	611	599	590	489
55°	488	482	470	457	451	436
65°	333	330	320	310	306	329
75°	170	173	171	166	165	181
85°	32	44	49	49	51	41
90°	0	0	0	0	0	



TEST NUMBER: P412082

CATALOG NUMBER: MRI-2ASR-2-500-L840-HEO

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1000.0	1000.0	1000.0	1000.0	1000.0
2.5°	1008.9	1001.9	992.8	1000.3	992.1
5°	1004.8	997.8	988.4	995.6	987.7
7.5°	997.5	990.6	981.1	987.7	980.2
10°	986.8	980.5	970.7	976.1	966.6
12.5°	975.1	966.9	956.5	961.2	951.8
15°	959.3	951.8	940.4	943.9	933.8
17.5°	942.0	933.2	922.1	924.0	915.5
20°	922.1	913.3	901.6	902.3	892.8
22.5°	900.1	891.9	879.2	877.0	868.2
25°	876.4	867.3	854.3	851.2	841.1
27.5°	850.9	842.3	828.5	823.4	812.7
30°	824.4	814.3	801.0	793.5	783.7
32.5°	795.4	786.2	771.4	761.9	754.4
35°	766.3	755.9	740.5	731.0	721.9
37.5°	733.5	723.8	709.3	699.8	690.7
40°	703.0	692.2	678.4	666.7	655.6
42.5°	667.6	660.1	644.9	633.3	622.5
45°	633.6	625.7	611.2	598.9	589.7
47.5°	599.2	591.3	577.4	564.2	555.4
50°	563.2	554.7	540.5	528.9	521.9
52.5°	525.7	519.7	507.1	493.9	486.0
55°	487.6	482.5	470.2	457.0	451.0
57.5°	449.1	445.0	433.6	421.0	415.0
60°	409.3	407.5	396.7	384.7	377.5
62.5°	371.8	369.0	357.9	349.1	342.5
65°	332.7	330.5	320.4	310.3	306.2
67.5°	293.3	290.8	281.3	274.4	268.1
70°	251.7	251.7	244.1	237.5	233.4
72.5°	212.2	212.6	207.5	200.6	198.7
75°	170.3	172.8	170.6	165.9	164.6
77.5°	133.1	135.3	135.6	134.0	131.8
80°	94.0	100.3	102.8	102.5	101.9
82.5°	60.2	70.3	75.1	74.7	75.4
85°	31.9	43.8	49.2	49.2	50.8
87.5°	11.0	22.4	24.0	22.1	21.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)