

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: P412120

Luminaire Tested: **MRI-4ASR-2-500-L850-HEO**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412120
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2006-829-2)
Test Lab: INNOVATION CENTER
Issue Date: 10/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: MRI-4ASR-2-500-L850-HEO
Description: 2 FT, 4 INCH CHANNEL, HIGH EFFICIENCY LENS
Light Source: (196) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

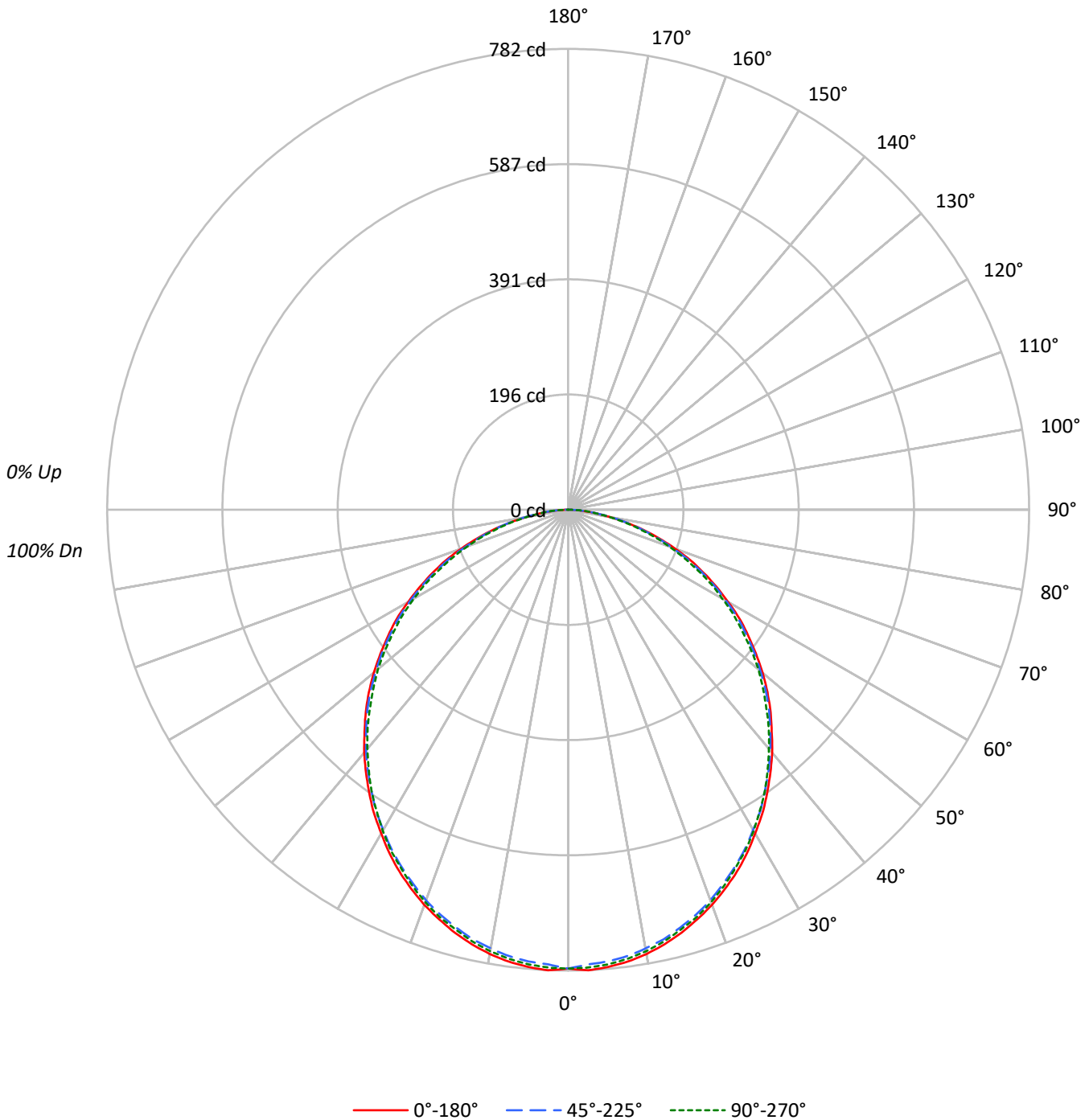
Lumens per Lamp: N/A
Luminaire Lumens: 2076.0 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.32
Luminous Opening: Rectangular (W 0.33' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 18.1
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



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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	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	95	98	95	92		94	91	89		90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76		82	78	74		79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64		73	67	63		70	65	62	59
4	83	71	62	56	81	70	61	55	67	60	54		65	59	54		63	57	53	51
5	76	63	55	48	74	62	54	48	60	53	47		58	52	47		56	51	46	44
6	70	57	48	42	69	56	48	42	54	47	41		53	46	41		51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37		48	41	36		47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33		44	37	33		43	37	32	31
9	57	44	35	30	56	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°	12573	12573	12573
5°	12626	12472	12553
10°	12552	12396	12475
15°	12420	12271	12331
20°	12261	12120	12179
25°	12071	11916	11957
30°	11824	11697	11731
35°	11594	11470	11470
40°	11350	11240	11167
45°	11090	11001	10851
50°	10814	10688	10582
55°	10491	10373	10173
60°	10123	9988	9752
65°	9700	9521	9226
70°	9083	8833	8596
75°	8266	8066	7754
80°	6769	6890	6602
85°	4872	5502	5891



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.5	3.5
10°-20°	208.3	10.0
20°-30°	309.8	14.9
30°-40°	365.3	17.6
40°-50°	371.2	17.9
50°-60°	329.4	15.9
60°-70°	246.5	11.9
70°-80°	136.5	6.6
80°-90°	35.5	1.7
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°	591.7	28.5
0°-40°	957.0	46.1
0°-60°	1657.6	79.8
0°-90°	2076.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2076.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	779	779	779	779	779	
5°	779	777	770	775	774	74
15°	743	742	734	740	738	209
25°	678	675	669	672	671	312
35°	588	587	582	583	582	368
45°	486	486	482	478	475	374
55°	373	374	368	364	361	333
65°	254	256	249	245	242	251
75°	132	131	129	126	124	139
85°	26	30	30	31	32	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	778.7	778.7	778.7	778.7	778.7
2.5°	782.4	780.1	772.4	778.7	777.7
5°	779.0	776.9	769.5	775.3	774.5
7.5°	773.5	771.1	764.3	770.1	768.8
10°	765.6	763.2	756.1	762.2	760.9
12.5°	755.4	753.2	746.7	751.7	750.6
15°	743.0	741.7	734.1	739.6	737.7
17.5°	728.8	727.5	720.7	725.9	724.9
20°	713.6	711.2	705.4	709.1	708.8
22.5°	696.0	693.9	687.3	691.7	691.0
25°	677.6	674.9	668.9	672.3	671.2
27.5°	657.1	654.4	649.4	652.1	651.5
30°	634.2	633.4	627.4	629.7	629.2
32.5°	612.6	610.5	606.3	606.1	605.3
35°	588.2	587.1	581.9	582.7	581.9
37.5°	563.2	562.7	558.2	557.2	555.6
40°	538.5	536.9	533.3	531.2	529.8
42.5°	511.2	512.0	507.0	504.6	503.6
45°	485.7	485.7	481.8	477.8	475.2
47.5°	458.4	458.6	454.4	449.4	447.8
50°	430.5	431.0	425.5	421.3	421.3
52.5°	401.3	402.9	397.6	393.2	391.3
55°	372.7	374.3	368.5	363.7	361.4
57.5°	345.1	344.8	340.1	333.8	333.3
60°	313.5	315.4	309.3	304.6	302.0
62.5°	283.6	286.0	279.4	274.9	273.3
65°	253.9	255.5	249.2	245.0	241.5
67.5°	224.7	224.2	218.4	213.7	211.8
70°	192.4	193.4	187.1	183.7	182.1
72.5°	162.2	163.2	157.7	155.3	152.7
75°	132.5	131.1	129.3	125.6	124.3
77.5°	100.9	102.2	101.7	97.8	97.2
80°	72.8	75.7	74.1	71.2	71.0
82.5°	48.4	51.3	50.5	49.7	48.9
85°	26.3	30.0	29.7	30.8	31.8
87.5°	10.0	12.9	15.2	15.0	15.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)