

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: P412090

Luminaire Tested: **MRI-2ASR-2-500-L950-HEO**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412090
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-L950-HEO
Description: 2 FT, 2 INCH CHANNEL, HIGH EFFICIENCY LENS
Light Source: (98) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2413.0 lumens
Efficiency: N/A
Efficacy: 112.8 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

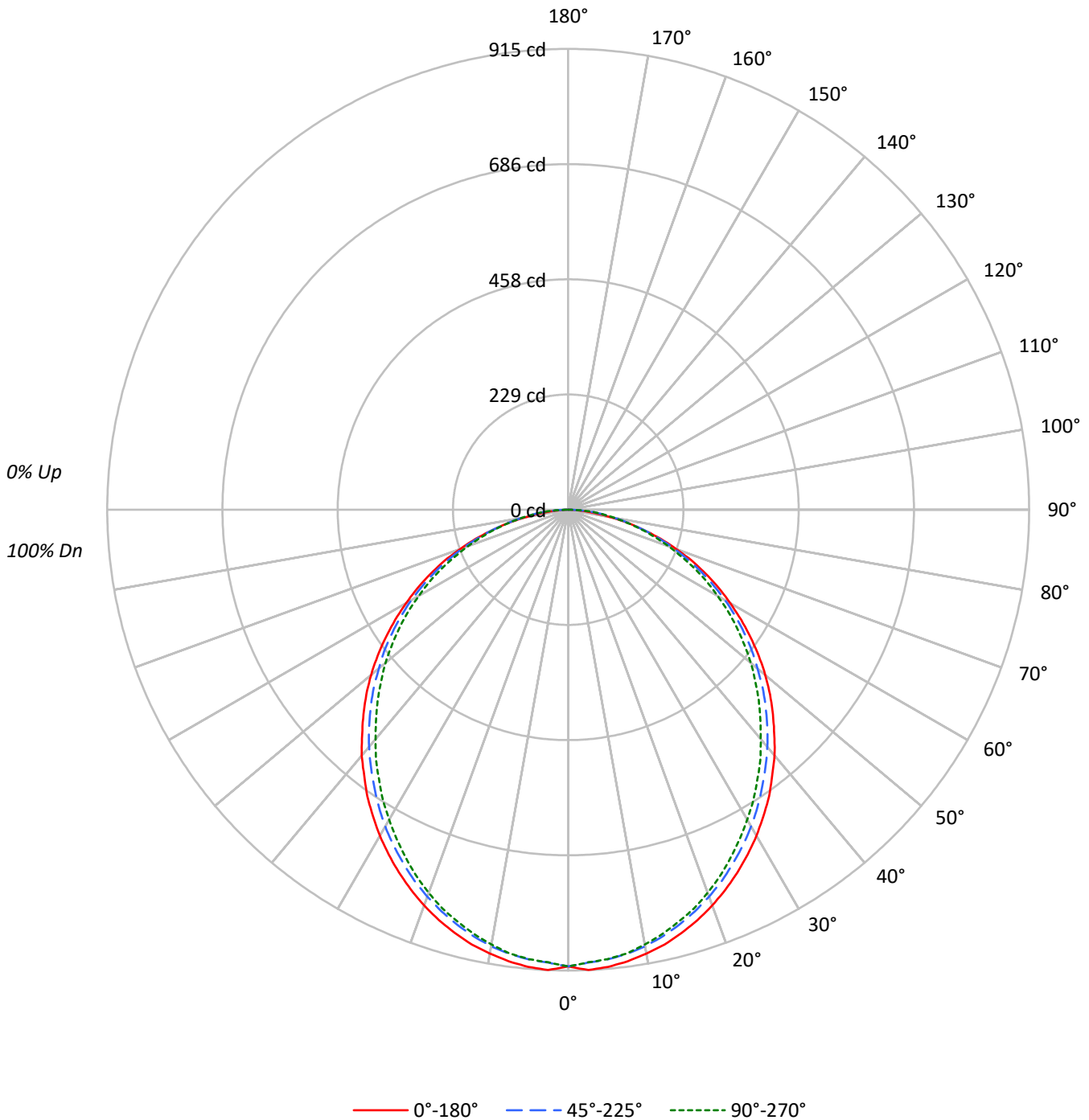
Input Watts (W): 21.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	29282	29282	29282
5°	29533	29050	29034
10°	29340	28862	28740
15°	29081	28510	28309
20°	28735	28096	27821
25°	28315	27603	27175
30°	27872	27085	26496
35°	27394	26471	25805
40°	26869	25929	25060
45°	26236	25309	24423
50°	25661	24626	23777
55°	24890	24006	23021
60°	23973	23237	22107
65°	23052	22204	21219
70°	21545	20894	19978
75°	19264	19301	18627
80°	15844	17332	17183
85°	10708	16525	17043



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.6	3.5
10°-20°	241.7	10.0
20°-30°	358.3	14.9
30°-40°	421.4	17.5
40°-50°	428.1	17.7
50°-60°	380.8	15.8
60°-70°	287.2	11.9
70°-80°	163.2	6.8
80°-90°	46.7	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°	685.6	28.4
0°-40°	1107.1	45.9
0°-60°	1915.9	79.4
0°-90°	2413.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2413.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	907	907	907	907	907	
5°	911	905	896	903	896	86
15°	870	863	853	856	847	245
25°	795	786	775	772	763	366
35°	695	686	672	663	655	434
45°	574	567	554	543	535	443
55°	442	438	426	414	409	395
65°	302	300	291	281	278	298
75°	154	157	155	150	149	165
85°	29	40	45	45	46	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	906.8	906.8	906.8	906.8	906.8
2.5°	914.8	908.5	900.2	907.1	899.7
5°	911.1	904.8	896.2	902.8	895.7
7.5°	904.5	898.2	889.7	895.7	888.8
10°	894.8	889.1	880.2	885.1	876.5
12.5°	884.2	876.8	867.4	871.7	863.1
15°	869.9	863.1	852.8	855.9	846.8
17.5°	854.2	846.2	836.2	837.9	830.2
20°	836.2	828.2	817.6	818.2	809.6
22.5°	816.2	808.7	797.3	795.3	787.3
25°	794.7	786.4	774.7	771.8	762.7
27.5°	771.6	763.8	751.3	746.7	737.0
30°	747.5	738.4	726.4	719.5	710.6
32.5°	721.2	712.9	699.5	690.9	684.1
35°	694.9	685.5	671.5	662.9	654.6
37.5°	665.2	656.3	643.2	634.6	626.3
40°	637.4	627.7	615.1	604.6	594.5
42.5°	605.4	598.5	584.8	574.2	564.5
45°	574.5	567.4	554.2	543.1	534.8
47.5°	543.4	536.2	523.6	511.6	503.6
50°	510.8	503.0	490.2	479.6	473.3
52.5°	476.7	471.3	459.8	447.8	440.7
55°	442.1	437.5	426.4	414.4	408.9
57.5°	407.2	403.5	393.2	381.8	376.3
60°	371.2	369.5	359.8	348.9	342.3
62.5°	337.2	334.6	324.6	316.6	310.6
65°	301.7	299.7	290.6	281.4	277.7
67.5°	266.0	263.7	255.1	248.8	243.1
70°	228.2	228.2	221.3	215.3	211.6
72.5°	192.5	192.7	188.2	181.9	180.2
75°	154.4	156.7	154.7	150.4	149.3
77.5°	120.7	122.7	123.0	121.5	119.5
80°	85.2	90.9	93.2	92.9	92.4
82.5°	54.6	63.8	68.1	67.8	68.3
85°	28.9	39.8	44.6	44.6	46.0
87.5°	10.0	20.3	21.7	20.0	19.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)