

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: P412268

Luminaire Tested: **MRI-4ASR-8-500-L940-HEO**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412268
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-8-500-L940-HEO
Description: 8 FT, 4 INCH CHANNEL, HIGH EFFICIENCY LENS
Light Source: (672) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6737.0 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.32
Luminous Opening: Rectangular (W 0.33' x L: 8' x H: 0')
CIE Type: Direct

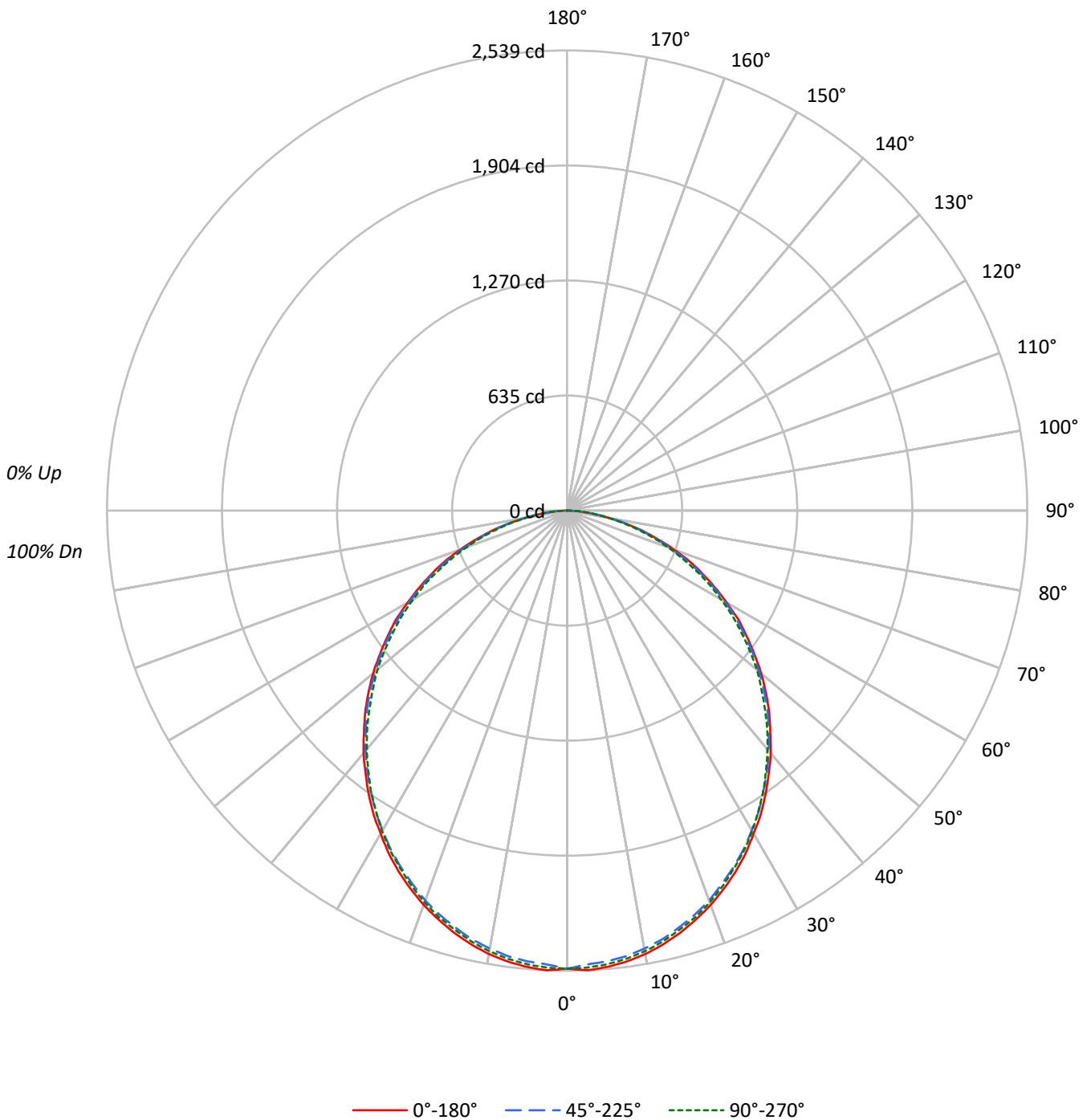
Input Watts (W): 61.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	10201	10201	10201
5°	10243	10119	10184
10°	10183	10057	10121
15°	10076	9955	10005
20°	9947	9833	9881
25°	9793	9667	9702
30°	9593	9489	9517
35°	9406	9305	9305
40°	9209	9118	9060
45°	8998	8925	8803
50°	8773	8672	8586
55°	8511	8415	8253
60°	8214	8104	7911
65°	7869	7723	7486
70°	7368	7167	6976
75°	6705	6544	6291
80°	5493	5590	5353
85°	3951	4465	4780



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.6	3.5
10°-20°	676.1	10.0
20°-30°	1005.4	14.9
30°-40°	1185.6	17.6
40°-50°	1204.5	17.9
50°-60°	1068.9	15.9
60°-70°	799.8	11.9
70°-80°	443.0	6.6
80°-90°	115.2	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°	1920.1	28.5
0°-40°	3105.7	46.1
0°-60°	5379.1	79.8
0°-90°	6737.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6737.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2527	2527	2527	2527	2527	
5°	2528	2521	2497	2516	2514	240
15°	2411	2407	2382	2400	2394	680
25°	2199	2190	2171	2182	2178	1012
35°	1909	1905	1888	1891	1888	1194
45°	1576	1576	1563	1551	1542	1215
55°	1209	1214	1196	1180	1173	1082
65°	824	829	809	795	784	815
75°	430	426	420	408	403	452
85°	85	97	96	100	103	107
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2527.2	2527.2	2527.2	2527.2	2527.2
2.5°	2539.1	2531.4	2506.7	2527.2	2523.7
5°	2528.0	2521.2	2497.3	2516.1	2513.5
7.5°	2510.1	2502.4	2480.2	2499.0	2494.7
10°	2484.5	2476.8	2453.8	2473.4	2469.2
12.5°	2451.3	2444.4	2423.1	2439.3	2435.9
15°	2411.2	2406.9	2382.2	2400.1	2394.1
17.5°	2365.1	2360.8	2338.7	2355.7	2352.3
20°	2315.6	2308.0	2289.2	2301.1	2300.3
22.5°	2258.5	2251.7	2230.3	2244.8	2242.3
25°	2198.8	2190.3	2170.6	2181.7	2178.3
27.5°	2132.3	2123.7	2107.5	2116.1	2114.4
30°	2058.1	2055.5	2035.9	2043.6	2041.9
32.5°	1988.1	1981.3	1967.7	1966.8	1964.2
35°	1908.8	1905.4	1888.3	1890.9	1888.3
37.5°	1827.8	1826.1	1811.6	1808.2	1803.0
40°	1747.6	1742.5	1730.5	1723.7	1719.5
42.5°	1658.9	1661.5	1645.3	1637.6	1634.2
45°	1576.2	1576.2	1563.4	1550.6	1542.1
47.5°	1487.5	1488.3	1474.7	1458.5	1453.4
50°	1397.1	1398.8	1380.9	1367.2	1367.2
52.5°	1302.4	1307.5	1290.4	1275.9	1270.0
55°	1209.4	1214.5	1195.8	1180.4	1172.7
57.5°	1119.9	1119.0	1103.7	1083.2	1081.5
60°	1017.5	1023.5	1003.9	988.5	980.0
62.5°	920.3	928.0	906.6	892.1	887.0
65°	823.9	829.0	808.6	794.9	783.8
67.5°	729.2	727.5	708.8	693.4	687.4
70°	624.3	627.7	607.3	596.2	591.1
72.5°	526.2	529.7	511.7	504.1	495.5
75°	429.9	425.6	419.6	407.7	403.4
77.5°	327.5	331.8	330.1	317.3	315.6
80°	236.3	245.6	240.5	231.1	230.3
82.5°	156.9	166.3	163.8	161.2	158.6
85°	85.3	97.2	96.4	99.8	103.2
87.5°	32.4	41.8	49.5	48.6	51.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)