

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: P412246

Luminaire Tested: **MRI-4ASR-8-1000-L950-HEO**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412246
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-8-1000-L950-HEO
Description: 8 FT, 4 INCH CHANNEL, HIGH EFFICIENCY LENS
Light Source: (672) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

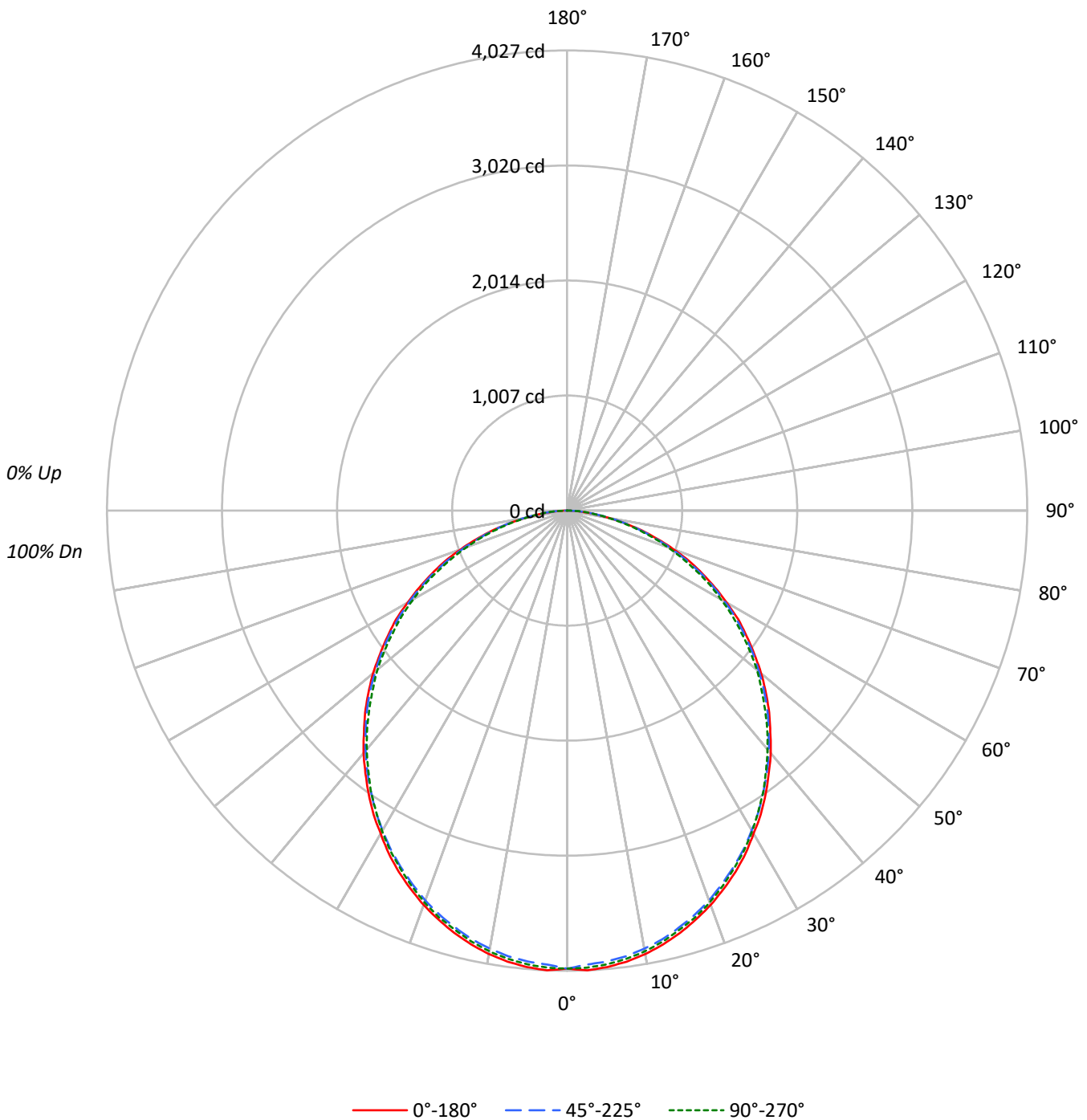
Lumens per Lamp: N/A
Luminaire Lumens: 10686.0 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.32
Luminous Opening: Rectangular (W 0.33' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 97.4
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	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°	16180	16180	16180
5°	16247	16050	16154
10°	16153	15953	16053
15°	15982	15790	15869
20°	15777	15597	15673
25°	15533	15334	15389
30°	15215	15051	15095
35°	14919	14759	14759
40°	14606	14464	14371
45°	14272	14156	13963
50°	13916	13754	13618
55°	13500	13348	13091
60°	13029	12855	12549
65°	12482	12249	11875
70°	11687	11368	11064
75°	10633	10381	9980
80°	8710	8868	8491
85°	6266	7081	7581



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	378.4	3.5
10°-20°	1072.4	10.0
20°-30°	1594.8	14.9
30°-40°	1880.5	17.6
40°-50°	1910.6	17.9
50°-60°	1695.4	15.9
60°-70°	1268.6	11.9
70°-80°	702.6	6.6
80°-90°	182.7	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°	3045.6	28.5
0°-40°	4926.2	46.1
0°-60°	8532.2	79.8
0°-90°	10686.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10686.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4008	4008	4008	4008	4008	
5°	4010	3999	3961	3991	3987	381
15°	3824	3818	3778	3807	3797	1078
25°	3488	3474	3443	3461	3455	1605
35°	3028	3022	2995	2999	2995	1894
45°	2500	2500	2480	2460	2446	1927
55°	1918	1926	1897	1872	1860	1716
65°	1307	1315	1282	1261	1243	1293
75°	682	675	666	647	640	717
85°	135	154	153	158	164	169
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4008.5	4008.5	4008.5	4008.5	4008.5
2.5°	4027.4	4015.3	3976.0	4008.5	4003.1
5°	4009.8	3999.0	3961.1	3990.9	3986.8
7.5°	3981.4	3969.3	3934.1	3963.9	3957.1
10°	3940.9	3928.7	3892.1	3923.3	3916.5
12.5°	3888.1	3877.3	3843.4	3869.2	3863.7
15°	3824.5	3817.7	3778.5	3806.9	3797.4
17.5°	3751.5	3744.7	3709.5	3736.6	3731.2
20°	3673.0	3660.8	3631.0	3650.0	3648.6
22.5°	3582.3	3571.5	3537.7	3560.7	3556.6
25°	3487.6	3474.1	3443.0	3460.6	3455.2
27.5°	3382.1	3368.6	3342.9	3356.4	3353.7
30°	3264.4	3260.4	3229.3	3241.4	3238.7
32.5°	3153.5	3142.7	3121.0	3119.7	3115.6
35°	3027.7	3022.3	2995.2	2999.3	2995.2
37.5°	2899.2	2896.5	2873.5	2868.0	2859.9
40°	2772.0	2763.9	2744.9	2734.1	2727.3
42.5°	2631.3	2635.4	2609.6	2597.5	2592.1
45°	2500.1	2500.1	2479.8	2459.5	2446.0
47.5°	2359.4	2360.7	2339.1	2313.4	2305.3
50°	2216.0	2218.7	2190.3	2168.6	2168.6
52.5°	2065.8	2073.9	2046.9	2023.9	2014.4
55°	1918.3	1926.5	1896.7	1872.3	1860.2
57.5°	1776.3	1774.9	1750.6	1718.1	1715.4
60°	1613.9	1623.4	1592.3	1568.0	1554.4
62.5°	1459.7	1471.9	1438.1	1415.1	1407.0
65°	1306.9	1315.0	1282.5	1260.9	1243.3
67.5°	1156.7	1154.0	1124.2	1099.9	1090.4
70°	990.3	995.7	963.2	945.6	937.5
72.5°	834.7	840.1	811.7	799.5	786.0
75°	681.8	675.1	665.6	646.7	639.9
77.5°	519.5	526.3	523.6	503.3	500.6
80°	374.7	389.6	381.5	366.6	365.3
82.5°	248.9	263.8	259.7	255.7	251.6
85°	135.3	154.2	152.9	158.3	163.7
87.5°	51.4	66.3	78.5	77.1	81.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)