

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: P412240

Luminaire Tested: **MRI-4ASR-8-1000-L850-HEO**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412240
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-L850-HEO
Description: 8 FT, 4 INCH CHANNEL, HIGH EFFICIENCY LENS
Light Source: (672) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

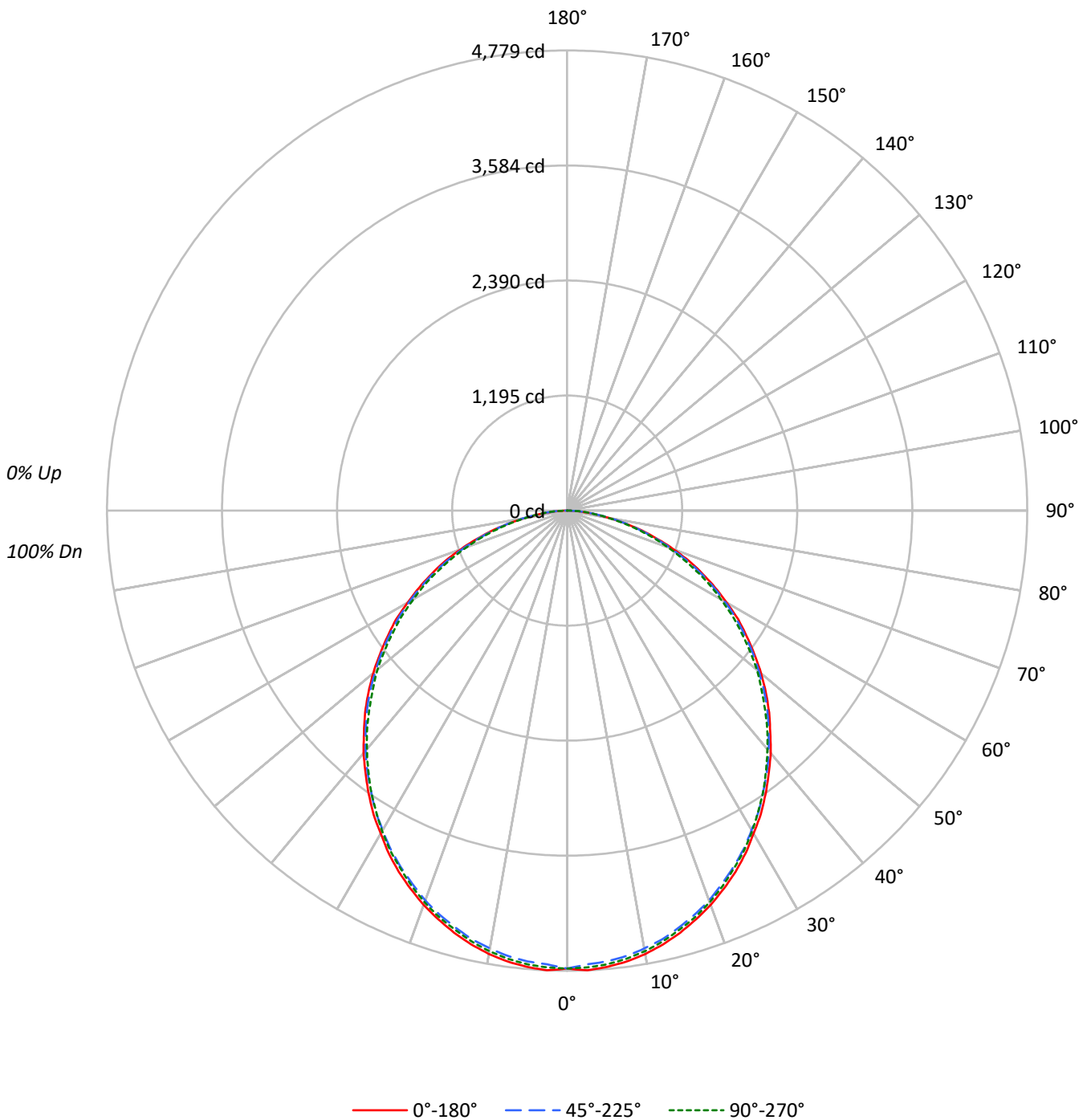
Lumens per Lamp: N/A
Luminaire Lumens: 12679.0 lumens
Efficiency: N/A
Efficacy: 130.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.32
Luminous Opening: Rectangular (W 0.33' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 97.4
Input Voltage (V): NR
Input Current (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°	19198	19198	19198
5°	19278	19043	19167
10°	19165	18928	19046
15°	18963	18735	18829
20°	18720	18506	18596
25°	18430	18194	18259
30°	18053	17858	17911
35°	17702	17512	17512
40°	17331	17161	17051
45°	16933	16796	16566
50°	16511	16320	16158
55°	16018	15837	15532
60°	15460	15252	14889
65°	14810	14534	14089
70°	13867	13488	13128
75°	12617	12316	11840
80°	10335	10523	10074
85°	7433	8401	8994



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	449.0	3.5
10°-20°	1272.4	10.0
20°-30°	1892.2	14.9
30°-40°	2231.2	17.6
40°-50°	2266.9	17.9
50°-60°	2011.6	15.9
60°-70°	1505.1	11.9
70°-80°	833.7	6.6
80°-90°	216.8	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°	3613.7	28.5
0°-40°	5844.9	46.1
0°-60°	10123.4	79.8
0°-90°	12679.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12679.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4756	4756	4756	4756	4756	
5°	4758	4745	4700	4735	4730	451
15°	4538	4530	4483	4517	4506	1279
25°	4138	4122	4085	4106	4100	1905
35°	3592	3586	3554	3559	3554	2247
45°	2966	2966	2942	2918	2902	2287
55°	2276	2286	2250	2222	2207	2037
65°	1551	1560	1522	1496	1475	1534
75°	809	801	790	767	759	850
85°	160	183	181	188	194	201
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4756.1	4756.1	4756.1	4756.1	4756.1
2.5°	4778.6	4764.1	4717.6	4756.1	4749.7
5°	4757.7	4744.9	4699.9	4735.2	4730.4
7.5°	4724.0	4709.6	4667.8	4703.1	4695.1
10°	4675.8	4661.4	4618.1	4655.0	4646.9
12.5°	4613.2	4600.4	4560.3	4590.8	4584.3
15°	4537.8	4529.8	4483.2	4516.9	4505.7
17.5°	4451.1	4443.1	4401.4	4433.5	4427.0
20°	4358.0	4343.6	4308.3	4330.7	4329.1
22.5°	4250.5	4237.6	4197.5	4224.8	4220.0
25°	4138.1	4122.1	4085.1	4106.0	4099.6
27.5°	4012.9	3996.9	3966.4	3982.4	3979.2
30°	3873.3	3868.4	3831.5	3846.0	3842.8
32.5°	3741.6	3728.8	3703.1	3701.5	3696.7
35°	3592.4	3585.9	3553.8	3558.6	3553.8
37.5°	3439.9	3436.7	3409.4	3402.9	3393.3
40°	3289.0	3279.4	3256.9	3244.0	3236.0
42.5°	3122.0	3126.9	3096.4	3081.9	3075.5
45°	2966.3	2966.3	2942.3	2918.2	2902.1
47.5°	2799.4	2801.0	2775.3	2744.8	2735.2
50°	2629.3	2632.5	2598.8	2573.1	2573.1
52.5°	2451.1	2460.7	2428.6	2401.3	2390.1
55°	2276.1	2285.8	2250.4	2221.5	2207.1
57.5°	2107.6	2106.0	2077.1	2038.6	2035.3
60°	1915.0	1926.2	1889.3	1860.4	1844.3
62.5°	1732.0	1746.4	1706.3	1679.0	1669.4
65°	1550.6	1560.2	1521.7	1496.0	1475.1
67.5°	1372.4	1369.2	1333.9	1305.0	1293.8
70°	1175.0	1181.4	1142.9	1122.0	1112.4
72.5°	990.4	996.8	963.1	948.7	932.6
75°	809.0	801.0	789.7	767.3	759.2
77.5°	616.4	624.4	621.2	597.1	593.9
80°	444.6	462.3	452.7	435.0	433.4
82.5°	295.4	313.0	308.2	303.4	298.6
85°	160.5	183.0	181.4	187.8	194.2
87.5°	61.0	78.7	93.1	91.5	96.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)