

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: P412242

Luminaire Tested: **MRI-4ASR-8-1000-L935-HEO**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412242
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-L935-HEO
Description: 8 FT, 4 INCH CHANNEL, HIGH EFFICIENCY LENS
Light Source: (672) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

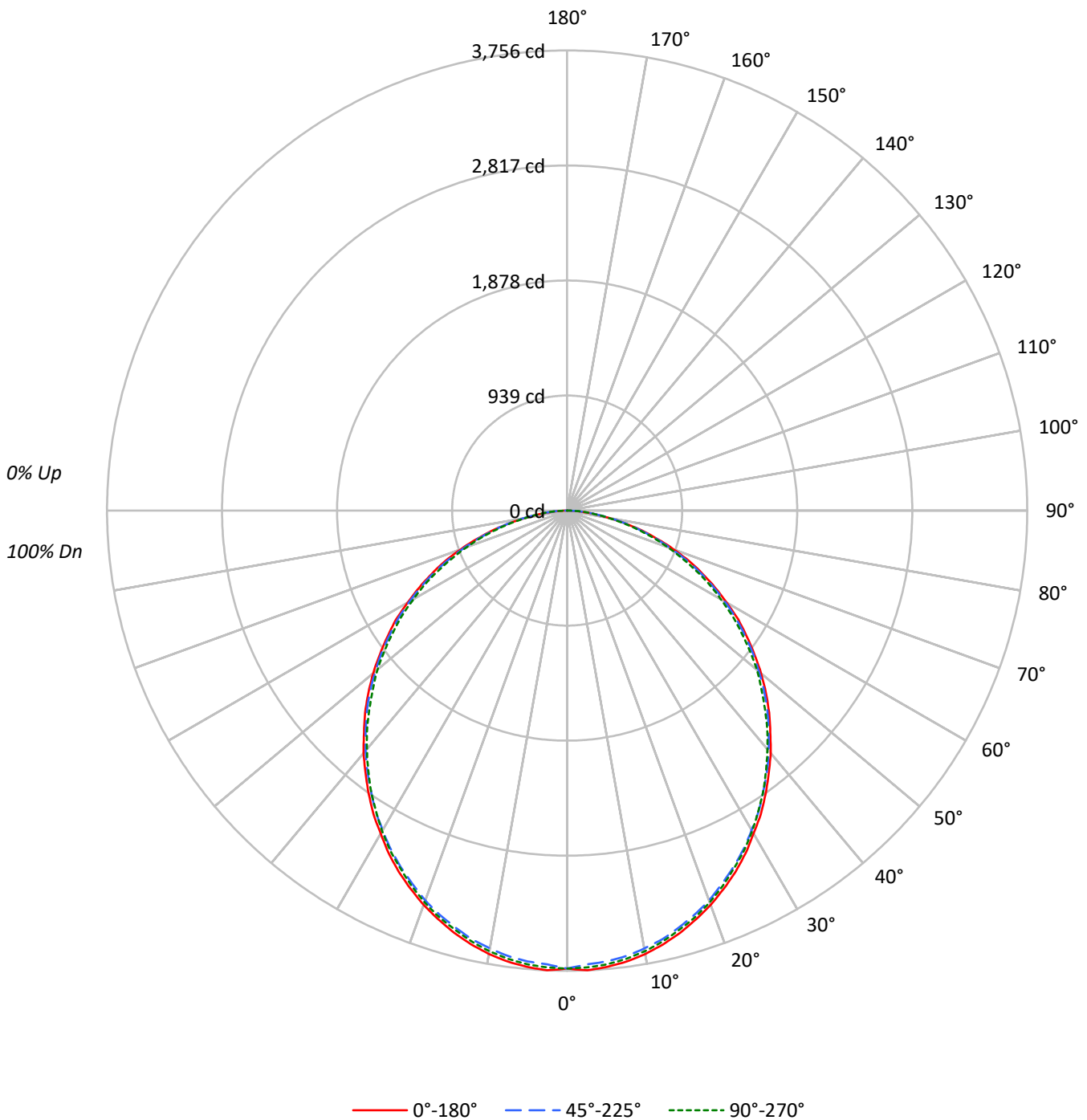
Lumens per Lamp: N/A
Luminaire Lumens: 9965.0 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.32
Luminous Opening: Rectangular (W 0.33' x L: 8' x H: 0')
CIE Type: Direct

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°	15088	15088	15088
5°	15151	14967	15065
10°	15063	14876	14969
15°	14904	14725	14798
20°	14713	14545	14616
25°	14485	14300	14350
30°	14189	14036	14077
35°	13913	13763	13763
40°	13621	13488	13401
45°	13309	13201	13020
50°	12977	12826	12699
55°	12589	12447	12208
60°	12151	11988	11702
65°	11640	11423	11074
70°	10899	10600	10318
75°	9916	9680	9306
80°	8124	8271	7917
85°	5845	6604	7072



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	352.9	3.5
10°-20°	1000.1	10.0
20°-30°	1487.2	14.9
30°-40°	1753.6	17.6
40°-50°	1781.7	17.9
50°-60°	1581.0	15.9
60°-70°	1183.0	11.9
70°-80°	655.2	6.6
80°-90°	170.4	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°	2840.2	28.5
0°-40°	4593.8	46.1
0°-60°	7956.5	79.8
0°-90°	9965.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9965.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3738	3738	3738	3738	3738	
5°	3739	3729	3694	3722	3718	355
15°	3566	3560	3524	3550	3541	1006
25°	3252	3240	3211	3227	3222	1497
35°	2823	2818	2793	2797	2793	1766
45°	2331	2331	2312	2294	2281	1797
55°	1789	1796	1769	1746	1735	1601
65°	1219	1226	1196	1176	1159	1206
75°	636	630	621	603	597	668
85°	126	144	143	148	153	158
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3738.0	3738.0	3738.0	3738.0	3738.0
2.5°	3755.7	3744.3	3707.8	3738.0	3733.0
5°	3739.3	3729.2	3693.9	3721.6	3717.9
7.5°	3712.8	3701.4	3668.6	3696.4	3690.1
10°	3675.0	3663.6	3629.5	3658.6	3652.2
12.5°	3625.8	3615.7	3584.1	3608.1	3603.0
15°	3566.5	3560.2	3523.6	3550.1	3541.2
17.5°	3498.3	3492.0	3459.2	3484.5	3479.4
20°	3425.2	3413.8	3386.1	3403.7	3402.5
22.5°	3340.6	3330.5	3299.0	3320.5	3316.7
25°	3252.3	3239.7	3210.7	3227.1	3222.1
27.5°	3153.9	3141.3	3117.3	3130.0	3127.4
30°	3044.2	3040.4	3011.4	3022.7	3020.2
32.5°	2940.7	2930.6	2910.4	2909.2	2905.4
35°	2823.4	2818.3	2793.1	2796.9	2793.1
37.5°	2703.5	2701.0	2679.6	2674.5	2667.0
40°	2585.0	2577.4	2559.7	2549.6	2543.3
42.5°	2453.8	2457.5	2433.6	2422.2	2417.2
45°	2331.4	2331.4	2312.5	2293.5	2280.9
47.5°	2200.2	2201.4	2181.3	2157.3	2149.7
50°	2066.5	2069.0	2042.5	2022.3	2022.3
52.5°	1926.4	1934.0	1908.8	1887.3	1878.5
55°	1788.9	1796.5	1768.7	1746.0	1734.7
57.5°	1656.4	1655.2	1632.5	1602.2	1599.7
60°	1505.1	1513.9	1484.9	1462.2	1449.5
62.5°	1361.2	1372.6	1341.1	1319.6	1312.0
65°	1218.7	1226.2	1196.0	1175.8	1159.4
67.5°	1078.6	1076.1	1048.4	1025.7	1016.8
70°	923.5	928.5	898.2	881.8	874.3
72.5°	778.4	783.4	756.9	745.6	733.0
75°	635.8	629.5	620.7	603.0	596.7
77.5°	484.4	490.8	488.2	469.3	466.8
80°	349.5	363.3	355.8	341.9	340.6
82.5°	232.1	246.0	242.2	238.4	234.7
85°	126.2	143.8	142.6	147.6	152.7
87.5°	47.9	61.8	73.2	71.9	75.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)