

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: P412206

Luminaire Tested: **MRI-2ASR-8-1000-L935-HEO**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412206
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-8-1000-L935-HEO
Description: 8 FT, 2 INCH CHANNEL, HIGH EFFICIENCY LENS
Light Source: (336) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7831.0 lumens
Efficiency: N/A
Efficacy: 77.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.17 / 1.32
Luminous Opening: Rectangular (W 0.17' x L: 8' x H: 0')
CIE Type: Direct

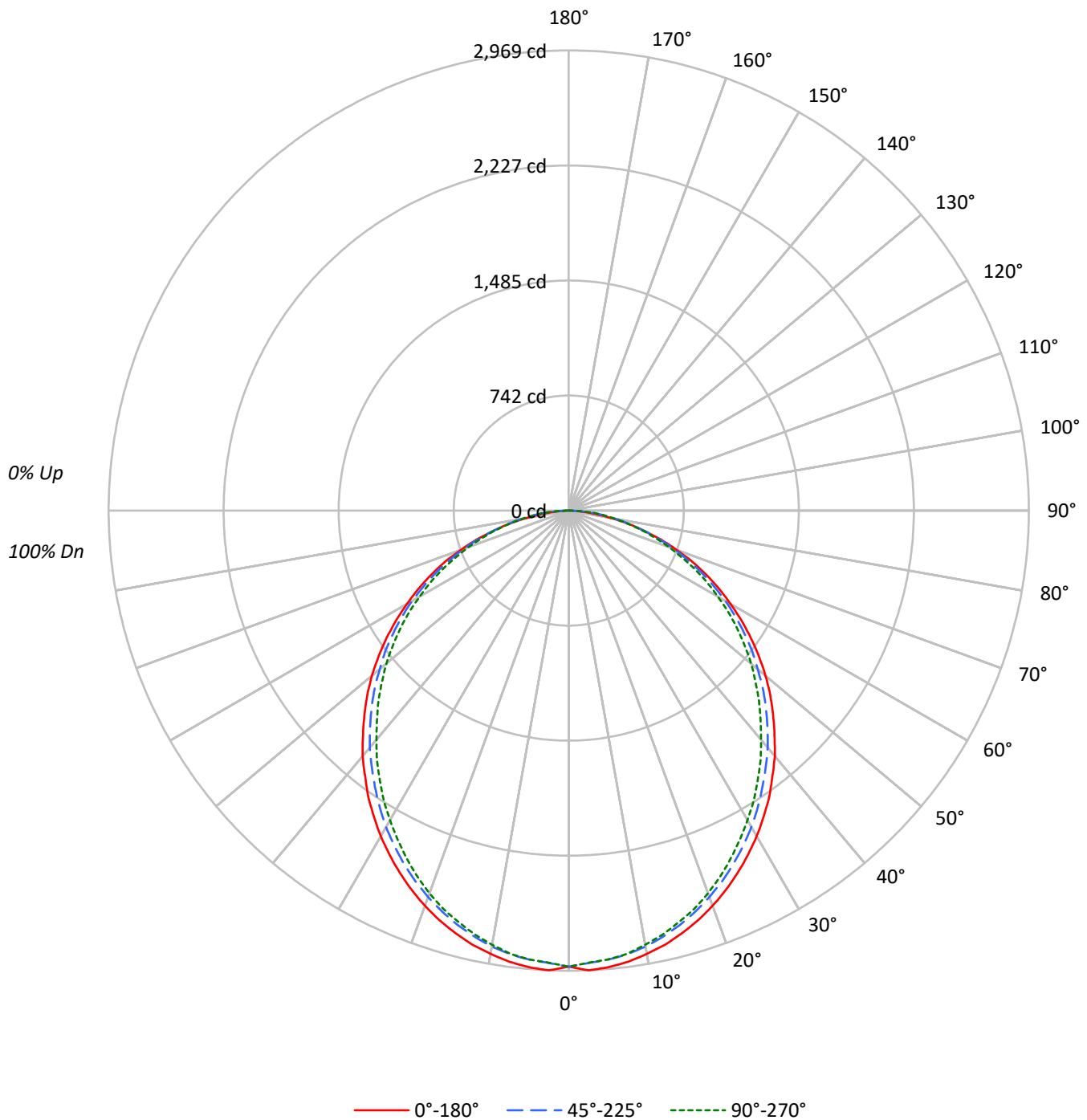
Input Watts (W): 101.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	104	100	96	106	102	98	94		98	94	91		94	91	89		90	88	86
2	99	91	84	78	96	89	83	77		85	80	76		82	78	74		79	75	72
3	90	80	72	65	88	78	71	65		75	69	63		72	67	62		70	65	61
4	83	71	62	55	80	69	61	55		67	60	54		65	58	53		62	57	53
5	76	63	54	48	74	62	54	47		60	53	47		58	52	46		56	51	46
6	70	57	48	42	68	56	48	42		54	47	41		53	46	41		51	45	40
7	65	52	43	37	64	51	43	37		49	42	37		48	41	36		47	41	36
8	61	47	39	33	59	47	39	33		45	38	33		44	37	32		43	37	32
9	57	43	35	30	55	43	35	30		42	35	30		41	34	29		40	34	29
10	53	40	32	27	52	40	32	27		39	32	27		38	31	27		37	31	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	23759	23759	23759
5°	23962	23571	23556
10°	23805	23417	23318
15°	23595	23131	22968
20°	23313	22795	22572
25°	22974	22395	22048
30°	22615	21974	21499
35°	22225	21476	20936
40°	21801	21038	20334
45°	21287	20534	19814
50°	20818	19978	19291
55°	20194	19477	18680
60°	19451	18850	17936
65°	18703	18011	17215
70°	17481	16954	16211
75°	15633	15661	15112
80°	12859	14068	13938
85°	8679	13412	13838



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.7	3.5
10°-20°	784.5	10.0
20°-30°	1163.0	14.9
30°-40°	1367.7	17.5
40°-50°	1389.2	17.7
50°-60°	1235.9	15.8
60°-70°	931.9	11.9
70°-80°	529.6	6.8
80°-90°	151.7	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°	2225.1	28.4
0°-40°	3592.8	45.9
0°-60°	6217.8	79.4
0°-90°	7831.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7831.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2943	2943	2943	2943	2943	
5°	2957	2936	2909	2930	2907	280
15°	2823	2801	2768	2778	2748	796
25°	2579	2552	2514	2505	2475	1188
35°	2255	2225	2179	2151	2124	1409
45°	1864	1841	1799	1762	1736	1439
55°	1435	1420	1384	1345	1327	1282
65°	979	973	943	913	901	967
75°	501	509	502	488	484	534
85°	94	129	145	145	149	120
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2943.0	2943.0	2943.0	2943.0	2943.0
2.5°	2968.9	2948.5	2921.6	2943.9	2919.8
5°	2956.9	2936.5	2908.6	2930.0	2906.8
7.5°	2935.5	2915.1	2887.3	2906.8	2884.5
10°	2904.0	2885.4	2856.6	2872.4	2844.6
12.5°	2869.6	2845.5	2814.9	2828.8	2801.0
15°	2823.2	2801.0	2767.6	2777.8	2748.1
17.5°	2772.2	2746.2	2713.7	2719.3	2694.2
20°	2713.7	2687.7	2653.4	2655.3	2627.4
22.5°	2648.8	2624.6	2587.5	2581.0	2555.0
25°	2579.2	2552.2	2514.2	2504.9	2475.2
27.5°	2504.0	2478.9	2438.1	2423.2	2391.7
30°	2426.0	2396.3	2357.3	2335.1	2306.3
32.5°	2340.6	2313.7	2270.1	2242.3	2220.0
35°	2255.2	2224.6	2179.1	2151.3	2124.4
37.5°	2158.7	2130.0	2087.3	2059.4	2032.5
40°	2068.7	2037.1	1996.3	1962.0	1929.5
42.5°	1964.8	1942.5	1897.9	1863.6	1832.0
45°	1864.5	1841.3	1798.6	1762.4	1735.5
47.5°	1763.4	1740.2	1699.3	1660.3	1634.4
50°	1657.6	1632.5	1590.7	1556.4	1536.0
52.5°	1547.1	1529.5	1492.4	1453.4	1430.2
55°	1434.8	1420.0	1383.8	1344.8	1327.2
57.5°	1321.6	1309.5	1276.1	1239.0	1221.4
60°	1204.7	1199.1	1167.5	1132.3	1110.9
62.5°	1094.2	1085.9	1053.4	1027.4	1007.9
65°	979.1	972.6	942.9	913.2	901.2
67.5°	863.1	855.7	827.9	807.4	788.9
70°	740.6	740.6	718.3	698.8	686.8
72.5°	624.6	625.5	610.7	590.3	584.7
75°	501.2	508.6	502.1	488.2	484.5
77.5°	391.7	398.1	399.1	394.4	387.9
80°	276.6	295.1	302.6	301.6	299.8
82.5°	177.3	207.0	220.9	220.0	221.8
85°	93.7	129.0	144.8	144.8	149.4
87.5°	32.5	65.9	70.5	65.0	62.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)