

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: P412138

Luminaire Tested: **MRI-2ASR-4-1000-L950-HEO**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412138
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-4-1000-L950-HEO
Description: 4 FT, 2 INCH CHANNEL, HIGH EFFICIENCY LENS
Light Source: (168) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5748.0 lumens
Efficiency: N/A
Efficacy: 77.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.17 / 1.32
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Direct

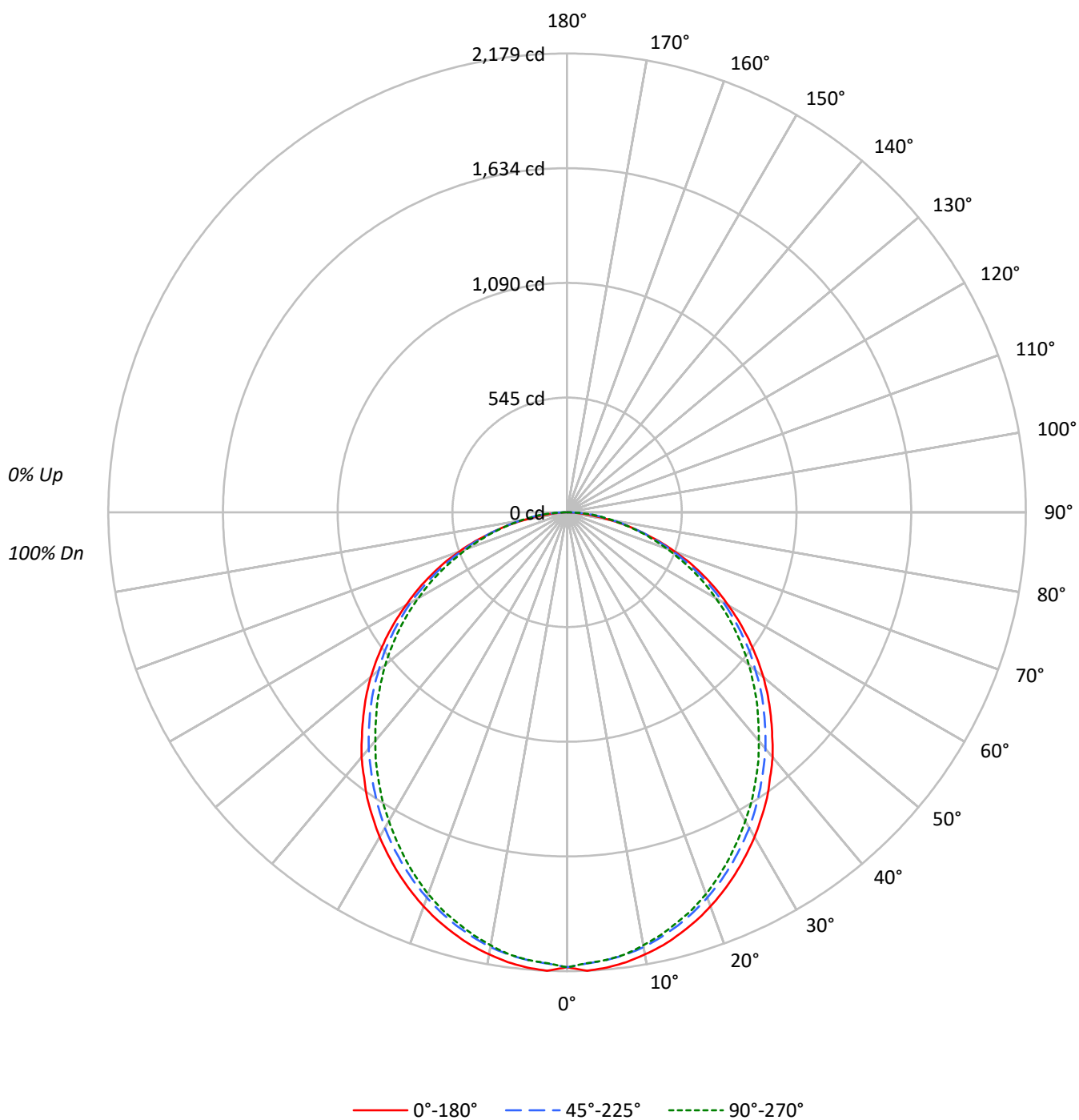
Input Watts (W): 74
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P412138

CATALOG NUMBER: MRI-2ASR-4-1000-L950-HEO

Luminous Intensity Polar Plot





TEST NUMBER: P412138

CATALOG NUMBER: MRI-2ASR-4-1000-L950-HEO

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	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	100		
1	109	104	100	96	106	102	98	94	98	94	91	94	91	89	90	88	86	84		
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	75	72	70		
3	90	80	72	65	88	78	71	65	75	69	63	72	67	62	70	65	61	59		
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51		
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	44		
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38		
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34		
8	61	47	39	33	59	47	39	33	45	38	33	44	37	32	43	37	32	30		
9	57	43	35	30	55	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°	34877	34877	34877
5°	35177	34601	34580
10°	34946	34377	34231
15°	34639	33956	33717
20°	34225	33464	33136
25°	33726	32876	32366
30°	33199	32259	31560
35°	32629	31527	30734
40°	32003	30884	29851
45°	31250	30145	29088
50°	30562	29328	28319
55°	29647	28591	27420
60°	28552	27674	26331
65°	27457	26441	25272
70°	25662	24892	23797
75°	22951	22988	22183
80°	18875	20651	20456
85°	12745	19692	20322



TEST NUMBER: P412138

CATALOG NUMBER: MRI-2ASR-4-1000-L950-HEO

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.8	3.5
10°-20°	575.8	10.0
20°-30°	853.6	14.9
30°-40°	1003.9	17.5
40°-50°	1019.7	17.7
50°-60°	907.1	15.8
60°-70°	684.1	11.9
70°-80°	388.7	6.8
80°-90°	111.3	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°	1633.2	28.4
0°-40°	2637.1	45.9
0°-60°	4563.9	79.4
0°-90°	5748.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5748.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2160	2160	2160	2160	2160	
5°	2170	2155	2135	2151	2134	206
15°	2072	2056	2031	2039	2017	584
25°	1893	1873	1845	1839	1817	872
35°	1655	1633	1600	1579	1559	1034
45°	1369	1352	1320	1294	1274	1056
55°	1053	1042	1016	987	974	941
65°	719	714	692	670	662	710
75°	368	373	368	358	356	392
85°	69	95	106	106	110	88
90°	0	0	0	0	0	



TEST NUMBER: P412138

CATALOG NUMBER: MRI-2ASR-4-1000-L950-HEO

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2160.1	2160.1	2160.1	2160.1	2160.1
2.5°	2179.2	2164.2	2144.5	2160.8	2143.1
5°	2170.4	2155.4	2134.9	2150.6	2133.6
7.5°	2154.7	2139.7	2119.3	2133.6	2117.2
10°	2131.5	2117.9	2096.8	2108.4	2087.9
12.5°	2106.3	2088.6	2066.1	2076.4	2055.9
15°	2072.3	2055.9	2031.4	2038.9	2017.1
17.5°	2034.8	2015.7	1991.9	1996.0	1977.6
20°	1991.9	1972.8	1947.6	1949.0	1928.5
22.5°	1944.2	1926.5	1899.2	1894.5	1875.4
25°	1893.1	1873.4	1845.4	1838.6	1816.8
27.5°	1837.9	1819.5	1789.6	1778.7	1755.5
30°	1780.7	1758.9	1730.3	1714.0	1692.8
32.5°	1718.0	1698.3	1666.3	1645.8	1629.5
35°	1655.4	1632.9	1599.5	1579.1	1559.3
37.5°	1584.5	1563.4	1532.1	1511.6	1491.9
40°	1518.4	1495.3	1465.3	1440.1	1416.3
42.5°	1442.1	1425.8	1393.1	1367.9	1344.7
45°	1368.6	1351.5	1320.2	1293.6	1273.9
47.5°	1294.3	1277.3	1247.3	1218.7	1199.6
50°	1216.7	1198.3	1167.6	1142.4	1127.4
52.5°	1135.6	1122.7	1095.4	1066.8	1049.8
55°	1053.2	1042.3	1015.7	987.1	974.1
57.5°	970.1	961.2	936.7	909.4	896.5
60°	884.2	880.1	857.0	831.1	815.4
62.5°	803.2	797.0	773.2	754.1	739.8
65°	718.7	713.9	692.1	670.3	661.5
67.5°	633.5	628.1	607.6	592.7	579.0
70°	543.6	543.6	527.3	513.0	504.1
72.5°	458.5	459.1	448.2	433.3	429.2
75°	367.9	373.3	368.5	358.3	355.6
77.5°	287.5	292.2	292.9	289.5	284.8
80°	203.0	216.6	222.1	221.4	220.0
82.5°	130.1	151.9	162.1	161.4	162.8
85°	68.8	94.7	106.3	106.3	109.7
87.5°	23.8	48.4	51.8	47.7	45.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)