

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: P412060

Luminaire Tested: **MRI-2ASR-2-1000-L850-HEO**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412060
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-2-1000-L850-HEO
Description: 2 FT, 2 INCH CHANNEL, HIGH EFFICIENCY LENS
Light Source: (98) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4101.0 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.17 / 1.32
Luminous Opening: Rectangular (W 0.17' x L: 2' x H: 0')
CIE Type: Direct

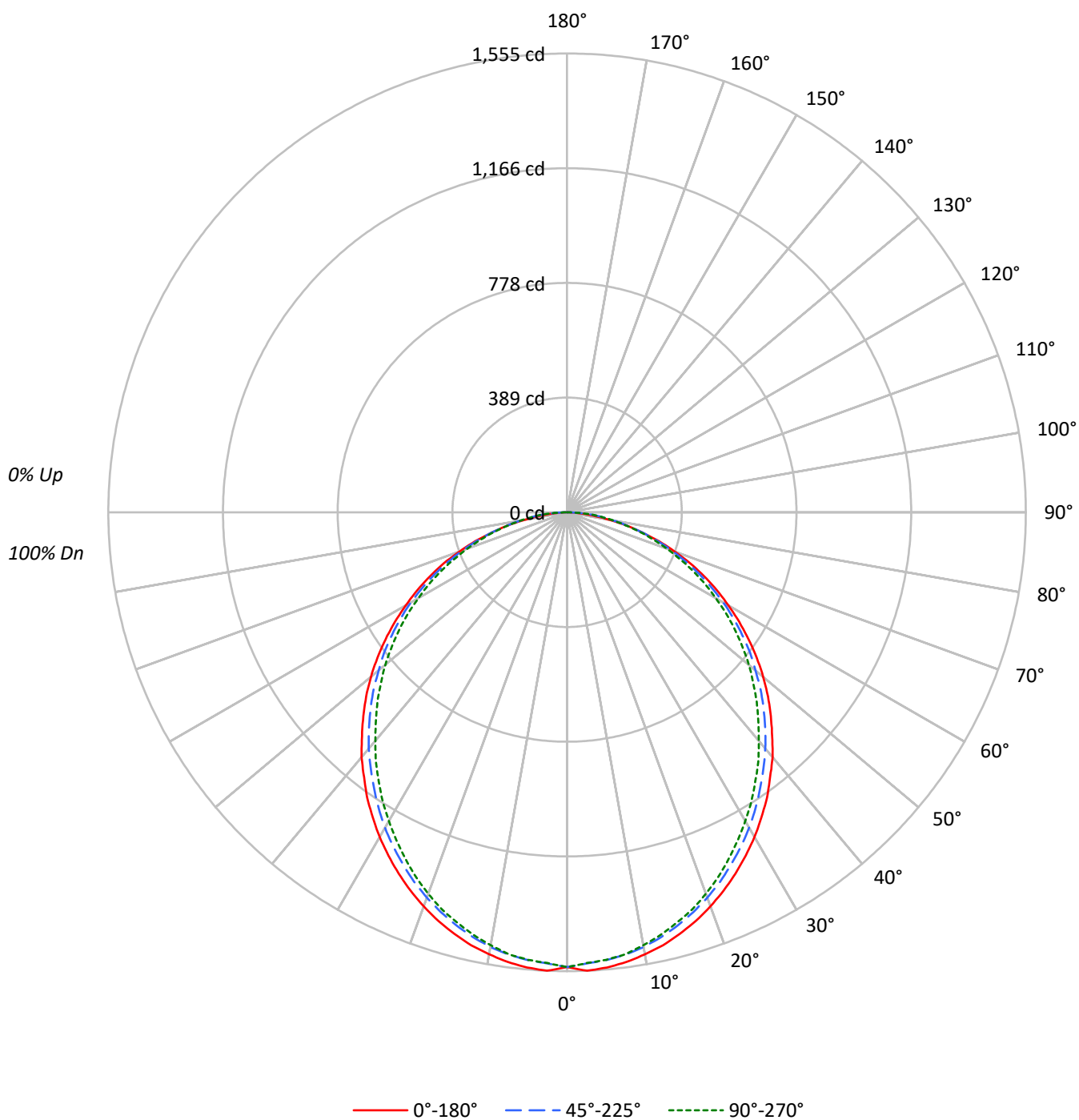
Input Watts (W): 34.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	49768	49768	49768
5°	50195	49375	49342
10°	49867	49054	48847
15°	49427	48451	48110
20°	48835	47752	47282
25°	48125	46910	46184
30°	47373	46031	45036
35°	46556	44987	43856
40°	45669	44068	42596
45°	44590	43014	41507
50°	43606	41852	40411
55°	42303	40800	39128
60°	40746	39486	37575
65°	39182	37731	36057
70°	36614	35519	33961
75°	32751	32801	31653
80°	26927	29456	29196
85°	18192	28084	29011



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.4	3.5
10°-20°	410.8	10.0
20°-30°	609.0	14.9
30°-40°	716.2	17.5
40°-50°	727.5	17.7
50°-60°	647.2	15.8
60°-70°	488.0	11.9
70°-80°	277.3	6.8
80°-90°	79.4	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°	1165.3	28.4
0°-40°	1881.5	45.9
0°-60°	3256.2	79.4
0°-90°	4101.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4101.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1541	1541	1541	1541	1541	
5°	1548	1538	1523	1534	1522	147
15°	1478	1467	1449	1455	1439	417
25°	1351	1337	1317	1312	1296	622
35°	1181	1165	1141	1127	1112	738
45°	976	964	942	923	909	754
55°	751	744	725	704	695	672
65°	513	509	494	478	472	506
75°	262	266	263	256	254	280
85°	49	68	76	76	78	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1541.2	1541.2	1541.2	1541.2	1541.2
2.5°	1554.8	1544.1	1530.0	1541.7	1529.0
5°	1548.5	1537.8	1523.2	1534.4	1522.2
7.5°	1537.3	1526.6	1512.0	1522.2	1510.6
10°	1520.8	1511.1	1496.0	1504.3	1489.7
12.5°	1502.8	1490.2	1474.1	1481.4	1466.8
15°	1478.5	1466.8	1449.3	1454.7	1439.1
17.5°	1451.8	1438.2	1421.1	1424.1	1410.9
20°	1421.1	1407.5	1389.6	1390.5	1375.9
22.5°	1387.1	1374.5	1355.0	1351.6	1338.0
25°	1350.7	1336.6	1316.6	1311.8	1296.2
27.5°	1311.3	1298.2	1276.8	1269.0	1252.5
30°	1270.5	1254.9	1234.5	1222.8	1207.8
32.5°	1225.8	1211.7	1188.8	1174.2	1162.6
35°	1181.0	1165.0	1141.2	1126.6	1112.5
37.5°	1130.5	1115.4	1093.1	1078.5	1064.4
40°	1083.4	1066.8	1045.4	1027.5	1010.5
42.5°	1028.9	1017.3	993.9	975.9	959.4
45°	976.4	964.3	941.9	923.0	908.9
47.5°	923.5	911.3	889.9	869.5	855.9
50°	868.0	854.9	833.1	815.1	804.4
52.5°	810.2	801.0	781.5	761.1	749.0
55°	751.4	743.6	724.7	704.3	695.0
57.5°	692.1	685.8	668.3	648.8	639.6
60°	630.9	627.9	611.4	593.0	581.8
62.5°	573.0	568.7	551.6	538.0	527.8
65°	512.8	509.4	493.8	478.3	471.9
67.5°	452.0	448.1	433.5	422.8	413.1
70°	387.8	387.8	376.2	366.0	359.7
72.5°	327.1	327.6	319.8	309.1	306.2
75°	262.5	266.3	262.9	255.7	253.7
77.5°	205.1	208.5	209.0	206.6	203.2
80°	144.8	154.6	158.4	158.0	157.0
82.5°	92.8	108.4	115.7	115.2	116.2
85°	49.1	67.6	75.8	75.8	78.3
87.5°	17.0	34.5	36.9	34.0	32.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)