

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: P412162

Luminaire Tested: **MRI-2ASR-4-500-L950-HEO**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412162
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-4-500-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: 3627.0 lumens
Efficiency: N/A
Efficacy: 83.6 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

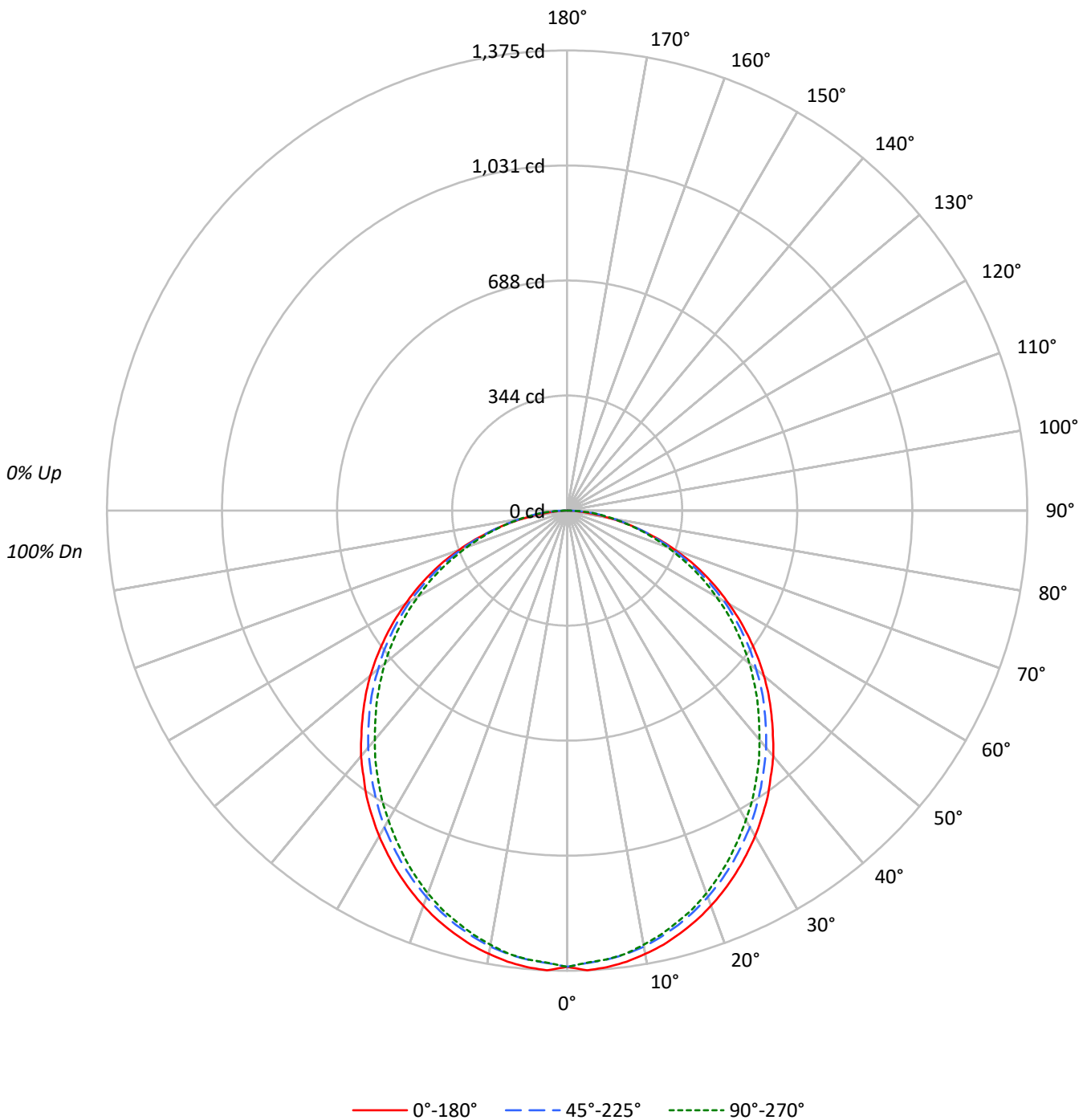
Input Watts (W): 43.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	22008	22008	22008
5°	22196	21835	21820
10°	22051	21692	21600
15°	21857	21426	21275
20°	21596	21115	20909
25°	21282	20746	20423
30°	20948	20355	19915
35°	20588	19894	19393
40°	20194	19488	18836
45°	19719	19023	18354
50°	19283	18507	17869
55°	18708	18041	17303
60°	18016	17463	16614
65°	17326	16684	15946
70°	16192	15706	15017
75°	14479	14504	13999
80°	11911	13027	12906
85°	8040	12430	12819



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.6	3.5
10°-20°	363.3	10.0
20°-30°	538.6	14.9
30°-40°	633.4	17.5
40°-50°	643.4	17.7
50°-60°	572.4	15.8
60°-70°	431.6	11.9
70°-80°	245.3	6.8
80°-90°	70.3	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°	1030.6	28.4
0°-40°	1664.0	45.9
0°-60°	2879.8	79.4
0°-90°	3627.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3627.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1363	1363	1363	1363	1363	
5°	1370	1360	1347	1357	1346	130
15°	1308	1297	1282	1286	1273	369
25°	1195	1182	1164	1160	1146	550
35°	1044	1030	1009	996	984	653
45°	864	853	833	816	804	667
55°	665	658	641	623	615	594
65°	454	450	437	423	417	448
75°	232	236	232	226	224	247
85°	43	60	67	67	69	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1363.1	1363.1	1363.1	1363.1	1363.1
2.5°	1375.1	1365.6	1353.2	1363.5	1352.3
5°	1369.5	1360.0	1347.2	1357.0	1346.3
7.5°	1359.6	1350.2	1337.3	1346.3	1336.0
10°	1345.0	1336.4	1323.1	1330.4	1317.5
12.5°	1329.1	1317.9	1303.7	1310.2	1297.3
15°	1307.6	1297.3	1281.8	1286.5	1272.8
17.5°	1284.0	1271.9	1256.9	1259.5	1247.9
20°	1256.9	1244.8	1228.9	1229.8	1216.9
22.5°	1226.8	1215.6	1198.4	1195.4	1183.4
25°	1194.6	1182.1	1164.5	1160.2	1146.4
27.5°	1159.7	1148.1	1129.2	1122.3	1107.7
30°	1123.6	1109.9	1091.8	1081.5	1068.2
32.5°	1084.1	1071.6	1051.4	1038.5	1028.2
35°	1044.5	1030.4	1009.3	996.4	983.9
37.5°	999.8	986.5	966.7	953.8	941.4
40°	958.1	943.5	924.6	908.7	893.7
42.5°	910.0	899.7	879.0	863.1	848.5
45°	863.6	852.8	833.1	816.3	803.8
47.5°	816.7	806.0	787.1	769.0	757.0
50°	767.7	756.1	736.8	720.9	711.4
52.5°	716.6	708.4	691.2	673.1	662.4
55°	664.6	657.7	640.9	622.9	614.7
57.5°	612.1	606.5	591.0	573.9	565.7
60°	557.9	555.4	540.8	524.4	514.5
62.5°	506.8	502.9	487.9	475.8	466.8
65°	453.5	450.5	436.7	423.0	417.4
67.5°	399.8	396.3	383.4	374.0	365.4
70°	343.0	343.0	332.7	323.7	318.1
72.5°	289.3	289.7	282.8	273.4	270.8
75°	232.1	235.6	232.5	226.1	224.4
77.5°	181.4	184.4	184.8	182.7	179.7
80°	128.1	136.7	140.1	139.7	138.8
82.5°	82.1	95.9	102.3	101.9	102.7
85°	43.4	59.7	67.1	67.1	69.2
87.5°	15.0	30.5	32.7	30.1	28.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)