

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: P412204

Luminaire Tested: **MRI-2ASR-8-1000-L850-HEO**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412204
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-L850-HEO
Description: 8 FT, 2 INCH CHANNEL, HIGH EFFICIENCY LENS
Light Source: (336) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9964.0 lumens
Efficiency: N/A
Efficacy: 98.3 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

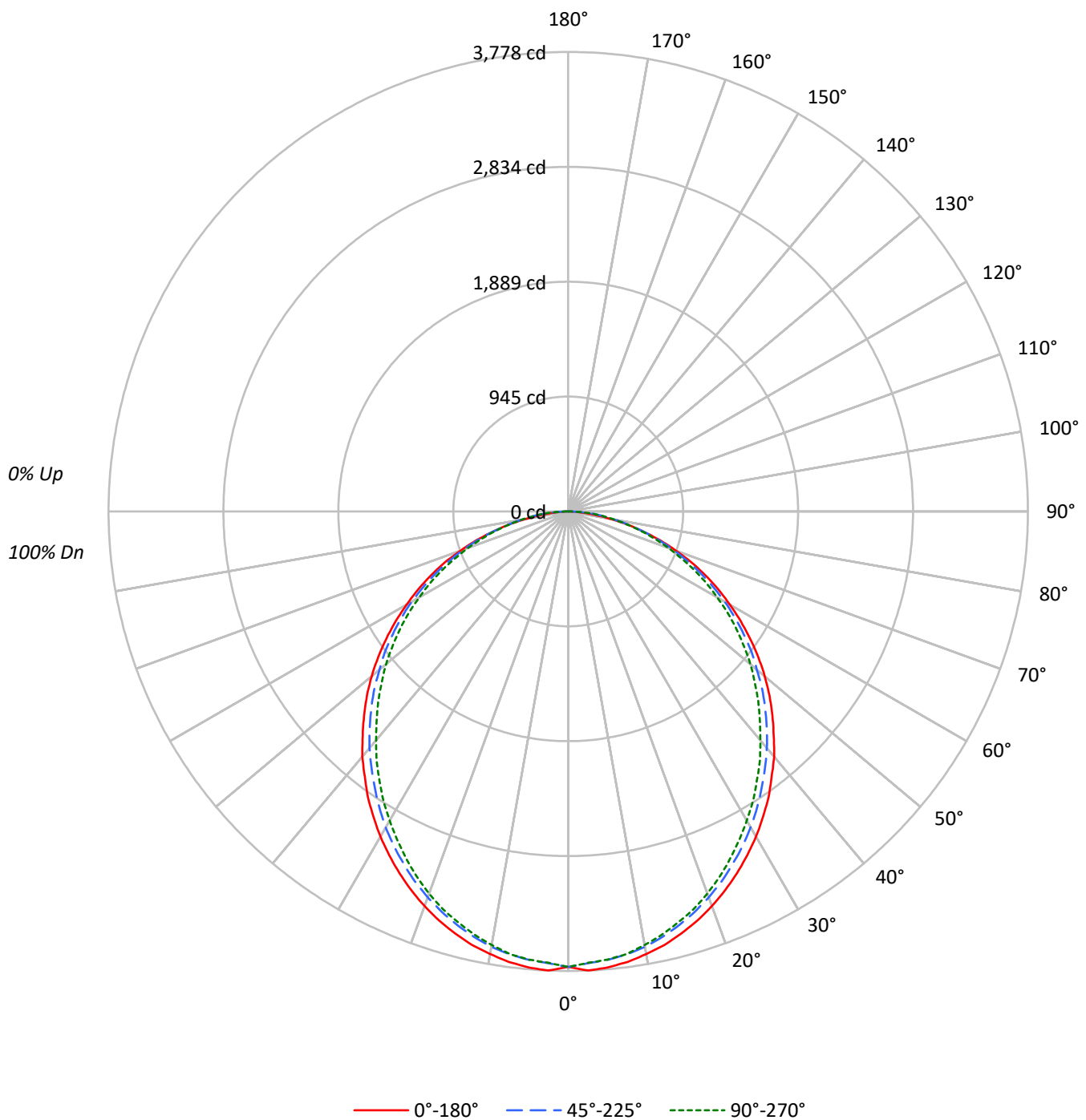
Input Watts (W): 101.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20				
RC	80				70					50					30				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	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°	30230	30230	30230
5°	30489	29991	29972
10°	30290	29795	29670
15°	30023	29431	29224
20°	29664	29004	28721
25°	29232	28495	28053
30°	28775	27960	27355
35°	28280	27326	26639
40°	27739	26769	25872
45°	27085	26127	25211
50°	26487	25420	24546
55°	25695	24781	23768
60°	24748	23985	22822
65°	23797	22919	21903
70°	22242	21574	20625
75°	19891	19928	19226
80°	16360	17899	17731
85°	11050	17062	17608



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.3	3.5
10°-20°	998.2	10.0
20°-30°	1479.7	14.9
30°-40°	1740.2	17.5
40°-50°	1767.6	17.7
50°-60°	1572.5	15.8
60°-70°	1185.8	11.9
70°-80°	673.8	6.8
80°-90°	193.0	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°	2831.2	28.4
0°-40°	4571.4	45.9
0°-60°	7911.4	79.4
0°-90°	9964.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9964.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3745	3745	3745	3745	3745	
5°	3762	3736	3701	3728	3698	357
15°	3592	3564	3521	3534	3497	1013
25°	3282	3247	3199	3187	3149	1512
35°	2870	2831	2773	2737	2703	1793
45°	2372	2343	2288	2242	2208	1831
55°	1826	1807	1761	1711	1689	1632
65°	1246	1238	1200	1162	1147	1231
75°	638	647	639	621	616	679
85°	119	164	184	184	190	153
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3744.6	3744.6	3744.6	3744.6	3744.6
2.5°	3777.6	3751.6	3717.4	3745.7	3715.0
5°	3762.3	3736.3	3700.9	3728.0	3698.5
7.5°	3735.1	3709.1	3673.7	3698.5	3670.2
10°	3695.0	3671.3	3634.7	3654.8	3619.4
12.5°	3651.3	3620.6	3581.6	3599.3	3563.9
15°	3592.2	3563.9	3521.4	3534.4	3496.6
17.5°	3527.3	3494.2	3452.9	3460.0	3428.1
20°	3452.9	3419.8	3376.1	3378.5	3343.1
22.5°	3370.2	3339.5	3292.3	3284.0	3251.0
25°	3281.7	3247.4	3199.0	3187.2	3149.4
27.5°	3186.0	3154.1	3102.2	3083.3	3043.1
30°	3086.8	3049.0	2999.4	2971.1	2934.5
32.5°	2978.2	2943.9	2888.4	2853.0	2824.7
35°	2869.5	2830.6	2772.7	2737.3	2703.0
37.5°	2746.7	2710.1	2655.8	2620.4	2586.1
40°	2632.2	2592.0	2540.1	2496.4	2455.0
42.5°	2499.9	2471.6	2414.9	2371.2	2331.1
45°	2372.4	2342.9	2288.5	2242.5	2208.2
47.5°	2243.7	2214.1	2162.2	2112.6	2079.5
50°	2109.0	2077.2	2024.0	1980.3	1954.4
52.5°	1968.5	1946.1	1898.8	1849.3	1819.7
55°	1825.6	1806.7	1760.7	1711.1	1688.7
57.5°	1681.6	1666.2	1623.7	1576.5	1554.0
60°	1532.8	1525.7	1485.5	1440.7	1413.5
62.5°	1392.3	1381.6	1340.3	1307.2	1282.4
65°	1245.8	1237.6	1199.8	1162.0	1146.6
67.5°	1098.2	1088.8	1053.3	1027.4	1003.7
70°	942.3	942.3	914.0	889.2	873.8
72.5°	794.7	795.9	777.0	751.0	744.0
75°	637.7	647.1	638.9	621.1	616.4
77.5°	498.3	506.6	507.8	501.9	493.6
80°	351.9	375.5	385.0	383.8	381.4
82.5°	225.5	263.3	281.0	279.9	282.2
85°	119.3	164.1	184.2	184.2	190.1
87.5°	41.3	83.8	89.7	82.7	79.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)