

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: P412218

Luminaire Tested: **MRI-2ASR-8-250-L935-HEO**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412218
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-8-250-L935-HEO
Description: 8 FT, 2 INCH CHANNEL, HIGH EFFICIENCY LENS
Light Source: (336) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

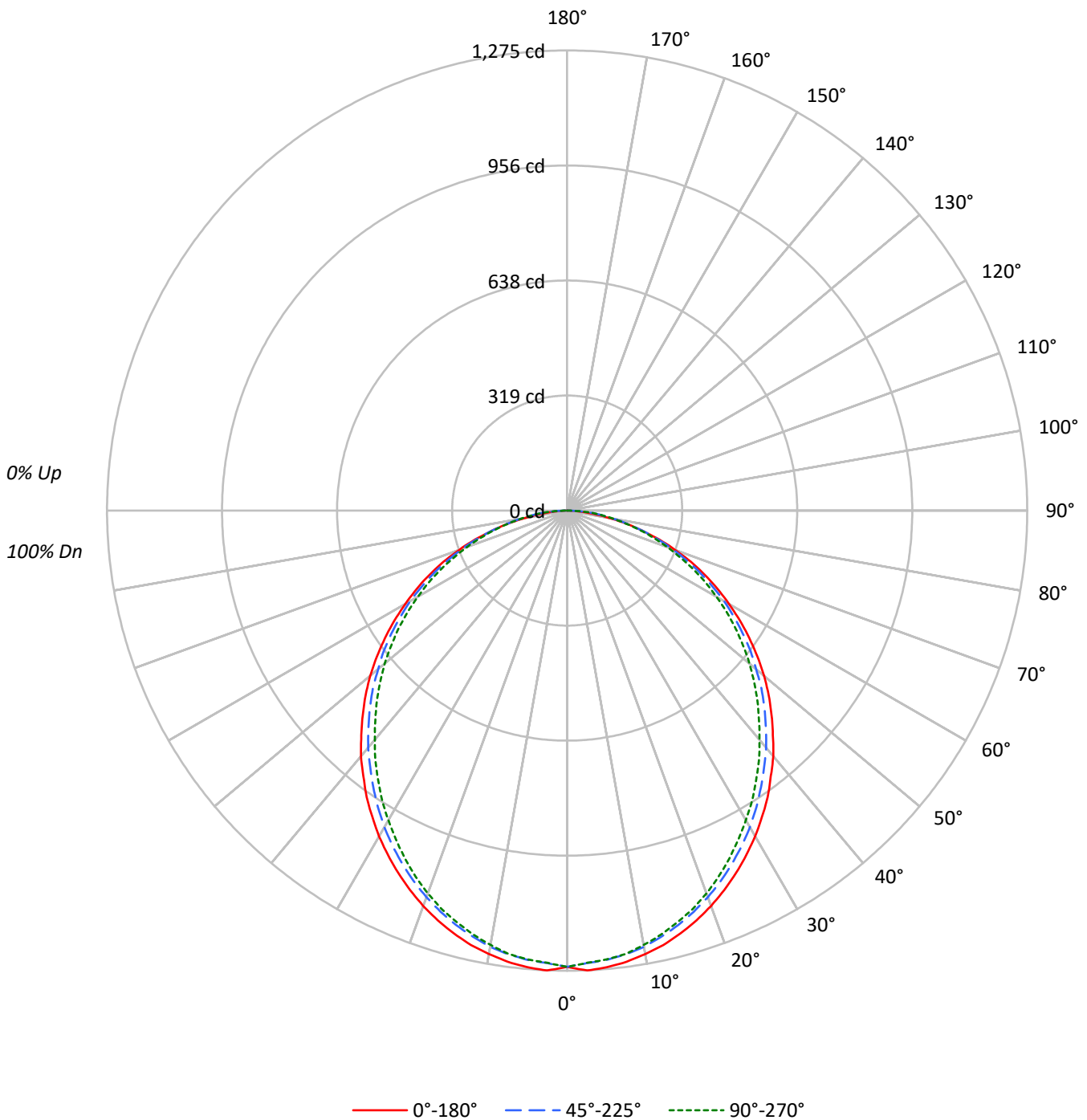
Lumens per Lamp: N/A
Luminaire Lumens: 3364.0 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.17 / 1.32
Luminous Opening: Rectangular (W 0.17' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 40.1
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°	10206	10206	10206
5°	10293	10126	10119
10°	10226	10059	10017
15°	10136	9936	9866
20°	10015	9792	9697
25°	9869	9620	9471
30°	9715	9440	9235
35°	9548	9225	8994
40°	9366	9038	8735
45°	9145	8821	8511
50°	8942	8582	8287
55°	8676	8366	8024
60°	8355	8097	7705
65°	8034	7738	7394
70°	7508	7284	6963
75°	6716	6728	6491
80°	5523	6044	5988
85°	3733	5761	5947



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.3	3.5
10°-20°	337.0	10.0
20°-30°	499.6	14.9
30°-40°	587.5	17.5
40°-50°	596.8	17.7
50°-60°	530.9	15.8
60°-70°	400.3	11.9
70°-80°	227.5	6.8
80°-90°	65.2	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°	955.8	28.4
0°-40°	1543.4	45.9
0°-60°	2671.0	79.4
0°-90°	3364.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3364.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1264	1264	1264	1264	1264	
5°	1270	1261	1250	1259	1249	120
15°	1213	1203	1189	1193	1180	342
25°	1108	1096	1080	1076	1063	510
35°	969	956	936	924	913	605
45°	801	791	773	757	746	618
55°	616	610	594	578	570	551
65°	421	418	405	392	387	415
75°	215	218	216	210	208	229
85°	40	55	62	62	64	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1264.2	1264.2	1264.2	1264.2	1264.2
2.5°	1275.4	1266.6	1255.1	1264.6	1254.3
5°	1270.2	1261.4	1249.5	1258.6	1248.7
7.5°	1261.0	1252.3	1240.3	1248.7	1239.1
10°	1247.5	1239.5	1227.1	1233.9	1222.0
12.5°	1232.7	1222.4	1209.2	1215.2	1203.2
15°	1212.8	1203.2	1188.9	1193.3	1180.5
17.5°	1190.9	1179.7	1165.7	1168.1	1157.4
20°	1165.7	1154.6	1139.8	1140.6	1128.7
22.5°	1137.8	1127.5	1111.5	1108.7	1097.6
25°	1107.9	1096.4	1080.0	1076.0	1063.3
27.5°	1075.6	1064.9	1047.3	1041.0	1027.4
30°	1042.2	1029.4	1012.7	1003.1	990.7
32.5°	1005.5	993.9	975.2	963.2	953.6
35°	968.8	955.6	936.1	924.1	912.6
37.5°	927.3	915.0	896.6	884.7	873.1
40°	888.7	875.1	857.6	842.8	828.9
42.5°	844.0	834.4	815.3	800.6	787.0
45°	801.0	791.0	772.6	757.1	745.5
47.5°	757.5	747.5	730.0	713.2	702.1
50°	712.0	701.3	683.3	668.6	659.8
52.5°	664.6	657.0	641.1	624.3	614.4
55°	616.4	610.0	594.4	577.7	570.1
57.5°	567.7	562.5	548.2	532.2	524.7
60°	517.5	515.1	501.5	486.4	477.2
62.5°	470.0	466.5	452.5	441.3	433.0
65°	420.6	417.8	405.1	392.3	387.1
67.5°	370.8	367.6	355.6	346.9	338.9
70°	318.1	318.1	308.6	300.2	295.0
72.5°	268.3	268.7	262.3	253.6	251.2
75°	215.3	218.5	215.7	209.7	208.1
77.5°	168.2	171.0	171.4	169.4	166.6
80°	118.8	126.8	130.0	129.6	128.8
82.5°	76.1	88.9	94.9	94.5	95.3
85°	40.3	55.4	62.2	62.2	64.2
87.5°	14.0	28.3	30.3	27.9	26.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)