

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: P412256

Luminaire Tested: **MRI-4ASR-8-250-L940-HEO**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412256
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2006-829-2)
Test Lab: INNOVATION CENTER
Issue Date: 10/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: MRI-4ASR-8-250-L940-HEO
Description: 8 FT, 4 INCH CHANNEL, HIGH EFFICIENCY LENS
Light Source: (672) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

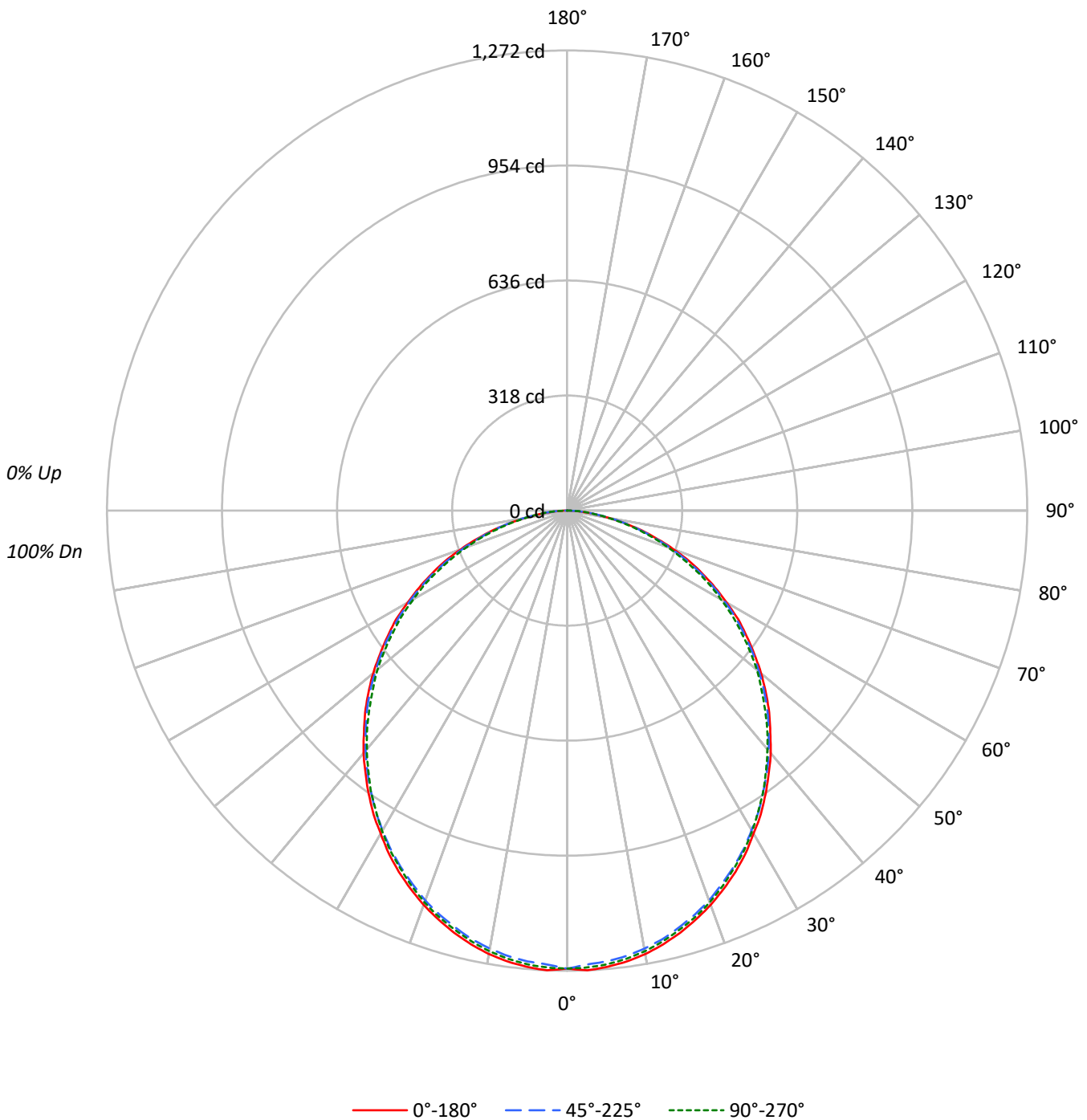
Lumens per Lamp: N/A
Luminaire Lumens: 3375.0 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.32
Luminous Opening: Rectangular (W 0.33' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 29.8
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	95	98	95	92		94	91	89		90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76		82	78	74		79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64		73	67	63		70	65	62	59
4	83	71	62	56	81	70	61	55	67	60	54		65	59	54		63	57	53	51
5	76	63	55	48	74	62	54	48	60	53	47		58	52	47		56	51	46	44
6	70	57	48	42	69	56	48	42	54	47	41		53	46	41		51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37		48	41	36		47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33		44	37	33		43	37	32	31
9	57	44	35	30	56	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°	5110	5110	5110
5°	5131	5069	5102
10°	5102	5039	5070
15°	5048	4987	5012
20°	4983	4926	4950
25°	4906	4843	4860
30°	4805	4754	4768
35°	4712	4662	4662
40°	4613	4568	4539
45°	4507	4471	4410
50°	4395	4344	4301
55°	4264	4215	4134
60°	4115	4060	3963
65°	3942	3869	3751
70°	3692	3590	3495
75°	3358	3278	3152
80°	2752	2801	2682
85°	1978	2237	2394



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.5	3.5
10°-20°	338.7	10.0
20°-30°	503.7	14.9
30°-40°	593.9	17.6
40°-50°	603.4	17.9
50°-60°	535.5	15.9
60°-70°	400.7	11.9
70°-80°	221.9	6.6
80°-90°	57.7	1.7
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°	961.9	28.5
0°-40°	1555.8	46.1
0°-60°	2694.7	79.8
0°-90°	3375.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3375.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1266	1266	1266	1266	1266	
5°	1266	1263	1251	1260	1259	120
15°	1208	1206	1193	1202	1199	341
25°	1102	1097	1087	1093	1091	507
35°	956	954	946	947	946	598
45°	790	790	783	777	772	609
55°	606	608	599	591	588	542
65°	413	415	405	398	393	408
75°	215	213	210	204	202	226
85°	43	49	48	50	52	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1266.0	1266.0	1266.0	1266.0	1266.0
2.5°	1272.0	1268.2	1255.8	1266.0	1264.3
5°	1266.4	1263.0	1251.1	1260.5	1259.2
7.5°	1257.5	1253.6	1242.5	1251.9	1249.8
10°	1244.7	1240.8	1229.3	1239.1	1237.0
12.5°	1228.0	1224.6	1213.9	1222.0	1220.3
15°	1207.9	1205.8	1193.4	1202.4	1199.4
17.5°	1184.8	1182.7	1171.6	1180.1	1178.4
20°	1160.1	1156.2	1146.8	1152.8	1152.4
22.5°	1131.4	1128.0	1117.3	1124.6	1123.3
25°	1101.5	1097.2	1087.4	1093.0	1091.3
27.5°	1068.2	1063.9	1055.8	1060.1	1059.2
30°	1031.0	1029.7	1019.9	1023.8	1022.9
32.5°	996.0	992.6	985.7	985.3	984.0
35°	956.2	954.5	946.0	947.3	946.0
37.5°	915.7	914.8	907.5	905.8	903.3
40°	875.5	872.9	866.9	863.5	861.4
42.5°	831.1	832.3	824.2	820.4	818.7
45°	789.6	789.6	783.2	776.8	772.5
47.5°	745.2	745.6	738.8	730.6	728.1
50°	699.9	700.7	691.8	684.9	684.9
52.5°	652.5	655.0	646.5	639.2	636.2
55°	605.9	608.4	599.0	591.3	587.5
57.5°	561.0	560.6	552.9	542.6	541.8
60°	509.7	512.7	502.9	495.2	490.9
62.5°	461.0	464.9	454.2	446.9	444.4
65°	412.7	415.3	405.1	398.2	392.7
67.5°	365.3	364.5	355.1	347.4	344.4
70°	312.8	314.5	304.2	298.7	296.1
72.5°	263.6	265.3	256.4	252.5	248.2
75°	215.3	213.2	210.2	204.2	202.1
77.5°	164.1	166.2	165.4	158.9	158.1
80°	118.4	123.1	120.5	115.8	115.4
82.5°	78.6	83.3	82.0	80.8	79.5
85°	42.7	48.7	48.3	50.0	51.7
87.5°	16.2	20.9	24.8	24.4	25.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)