

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: P412088

Luminaire Tested: **MRI-2ASR-2-500-L940-HEO**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412088
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-2-500-L940-HEO
Description: 2 FT, 2 INCH CHANNEL, HIGH EFFICIENCY LENS
Light Source: (98) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2273.0 lumens
Efficiency: N/A
Efficacy: 106.2 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

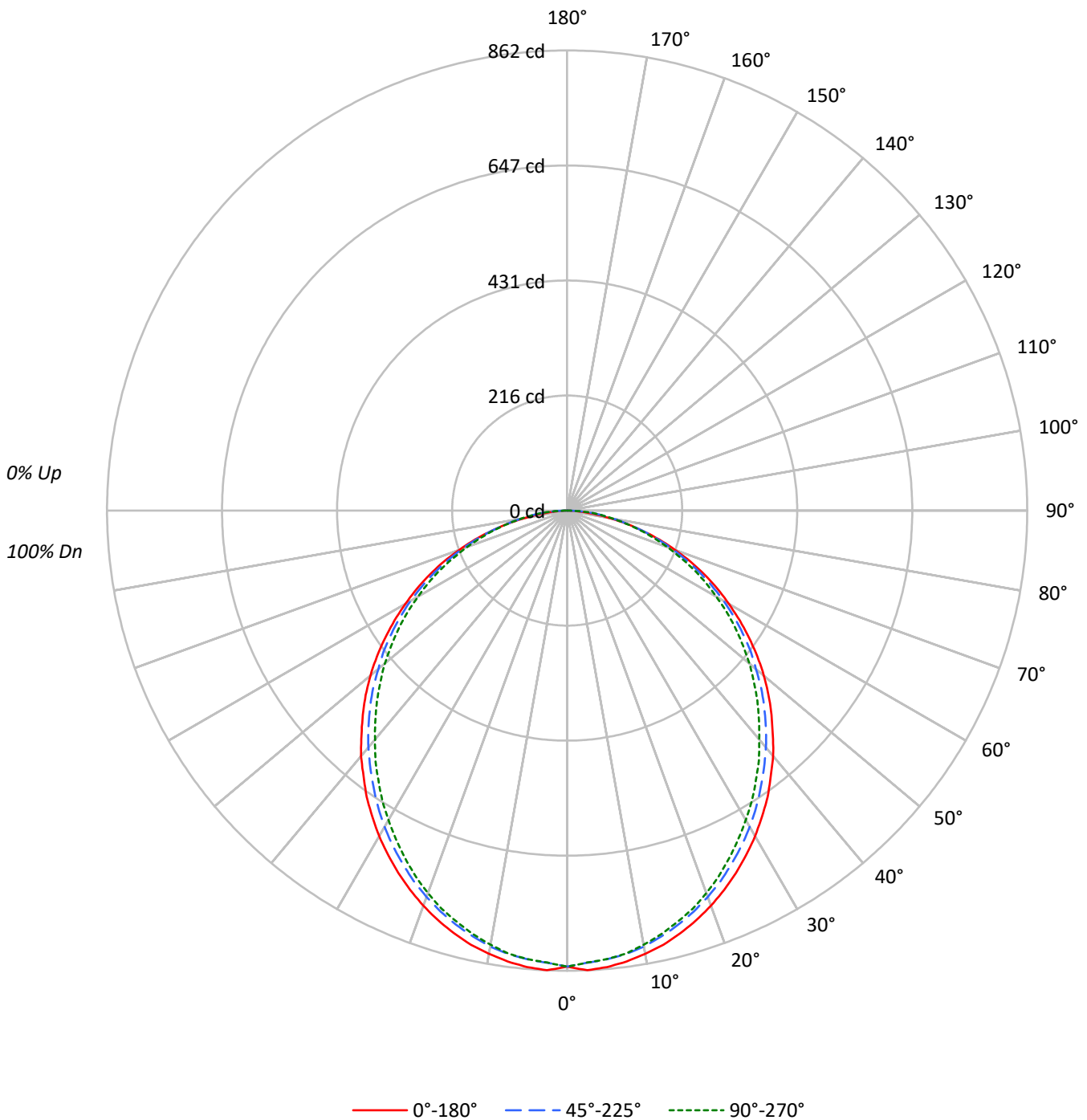
Input Watts (W): 21.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	27584	27584	27584
5°	27822	27365	27349
10°	27639	27189	27075
15°	27397	26855	26664
20°	27069	26467	26206
25°	26673	26003	25597
30°	26258	25512	24960
35°	25805	24934	24307
40°	25313	24424	23606
45°	24715	23843	23003
50°	24169	23194	22396
55°	23448	22615	21686
60°	22585	21887	20828
65°	21715	20913	19988
70°	20299	19685	18817
75°	18153	18178	17542
80°	14933	16327	16179
85°	10078	15561	16080



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.6	3.5
10°-20°	227.7	10.0
20°-30°	337.6	14.9
30°-40°	397.0	17.5
40°-50°	403.2	17.7
50°-60°	358.7	15.8
60°-70°	270.5	11.9
70°-80°	153.7	6.8
80°-90°	44.0	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°	645.9	28.4
0°-40°	1042.8	45.9
0°-60°	1804.8	79.4
0°-90°	2273.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2273.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	854	854	854	854	854	
5°	858	852	844	850	844	81
15°	820	813	803	806	798	231
25°	749	741	730	727	718	345
35°	655	646	632	624	617	409
45°	541	534	522	512	504	418
55°	416	412	402	390	385	372
65°	284	282	274	265	262	281
75°	146	148	146	142	141	155
85°	27	37	42	42	43	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	854.2	854.2	854.2	854.2	854.2
2.5°	861.8	855.8	848.0	854.5	847.5
5°	858.3	852.3	844.2	850.4	843.7
7.5°	852.1	846.1	838.1	843.7	837.2
10°	842.9	837.5	829.2	833.7	825.7
12.5°	832.9	825.9	817.0	821.1	813.0
15°	819.5	813.0	803.3	806.3	797.6
17.5°	804.6	797.1	787.7	789.3	782.0
20°	787.7	780.1	770.2	770.7	762.6
22.5°	768.8	761.8	751.0	749.2	741.6
25°	748.6	740.8	729.8	727.1	718.4
27.5°	726.8	719.5	707.7	703.4	694.2
30°	704.2	695.5	684.2	677.8	669.4
32.5°	679.4	671.6	658.9	650.8	644.4
35°	654.6	645.7	632.5	624.4	616.6
37.5°	626.6	618.2	605.8	597.8	589.9
40°	600.5	591.3	579.4	569.5	560.0
42.5°	570.3	563.8	550.9	540.9	531.8
45°	541.2	534.5	522.1	511.6	503.7
47.5°	511.8	505.1	493.2	481.9	474.4
50°	481.1	473.8	461.7	451.8	445.8
52.5°	449.1	443.9	433.2	421.9	415.1
55°	416.5	412.2	401.7	390.3	385.2
57.5°	383.6	380.1	370.4	359.6	354.5
60°	349.7	348.0	338.9	328.6	322.5
62.5°	317.6	315.2	305.7	298.2	292.5
65°	284.2	282.3	273.7	265.1	261.6
67.5°	250.5	248.4	240.3	234.4	229.0
70°	215.0	215.0	208.5	202.8	199.3
72.5°	181.3	181.6	177.3	171.3	169.7
75°	145.5	147.6	145.7	141.7	140.6
77.5°	113.7	115.6	115.8	114.5	112.6
80°	80.3	85.7	87.8	87.5	87.0
82.5°	51.5	60.1	64.1	63.8	64.4
85°	27.2	37.4	42.0	42.0	43.4
87.5°	9.4	19.1	20.5	18.9	18.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)