

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: P412086

Luminaire Tested: **MRI-2ASR-2-500-L935-HEO**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412086
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-L935-HEO
Description: 2 FT, 2 INCH CHANNEL, HIGH EFFICIENCY LENS
Light Source: (98) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2250.0 lumens
Efficiency: N/A
Efficacy: 105.1 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

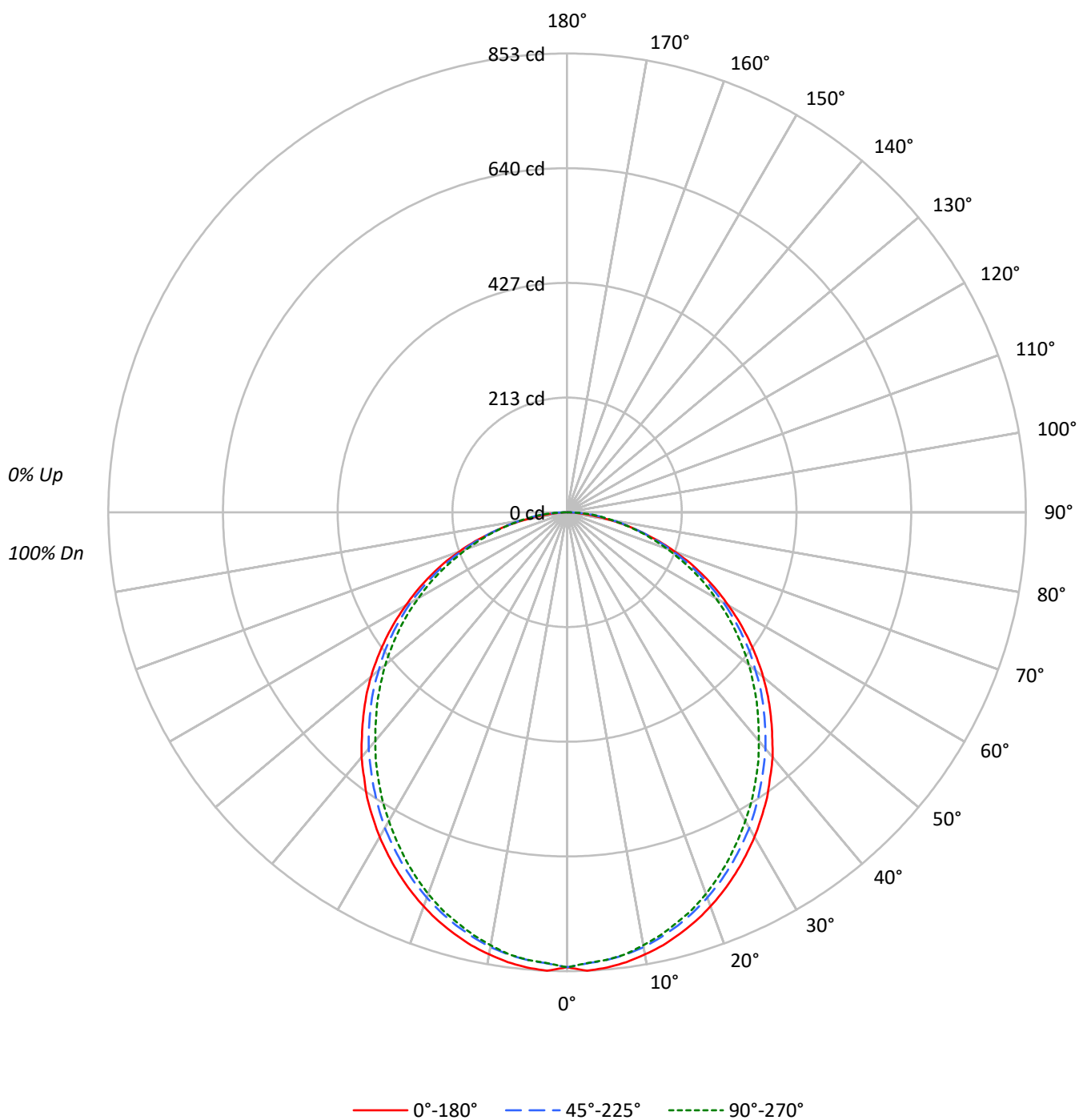
Input Watts (W): 21.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	27306	27306	27306
5°	27540	27089	27073
10°	27360	26914	26799
15°	27119	26584	26397
20°	26794	26199	25941
25°	26402	25739	25340
30°	25989	25255	24707
35°	25545	24681	24062
40°	25056	24179	23370
45°	24464	23601	22770
50°	23923	22963	22170
55°	23212	22384	21467
60°	22352	21668	20615
65°	21494	20699	19782
70°	20091	19487	18628
75°	17966	18004	17367
80°	14784	16160	16011
85°	9967	15413	15895



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.8	3.5
10°-20°	225.4	10.0
20°-30°	334.1	14.9
30°-40°	393.0	17.5
40°-50°	399.1	17.7
50°-60°	355.1	15.8
60°-70°	267.8	11.9
70°-80°	152.2	6.8
80°-90°	43.6	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°	639.3	28.4
0°-40°	1032.3	45.9
0°-60°	1786.5	79.4
0°-90°	2250.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2250.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	846	846	846	846	846	
5°	850	844	836	842	835	81
15°	811	805	795	798	790	229
25°	741	733	722	720	711	341
35°	648	639	626	618	610	405
45°	536	529	517	506	499	413
55°	412	408	398	386	381	368
65°	281	280	271	262	259	278
75°	144	146	144	140	139	153
85°	27	37	42	42	43	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	845.6	845.6	845.6	845.6	845.6
2.5°	853.0	847.2	839.4	845.8	838.9
5°	849.6	843.7	835.7	841.8	835.2
7.5°	843.4	837.6	829.6	835.2	828.8
10°	834.4	829.0	820.8	825.3	817.3
12.5°	824.5	817.6	808.8	812.8	804.8
15°	811.2	804.8	795.2	798.1	789.6
17.5°	796.5	789.0	779.7	781.3	774.1
20°	779.7	772.2	762.4	762.9	754.9
22.5°	761.0	754.1	743.4	741.6	734.1
25°	741.0	733.3	722.4	719.7	711.2
27.5°	719.4	712.2	700.5	696.2	687.2
30°	697.0	688.5	677.3	670.9	662.6
32.5°	672.5	664.8	652.2	644.2	637.8
35°	648.0	639.2	626.1	618.1	610.4
37.5°	620.2	612.0	599.7	591.7	584.0
40°	594.4	585.3	573.6	563.7	554.4
42.5°	564.5	558.1	545.3	535.4	526.4
45°	535.7	529.0	516.8	506.4	498.6
47.5°	506.6	500.0	488.2	477.0	469.6
50°	476.2	469.1	457.1	447.2	441.3
52.5°	444.5	439.5	428.8	417.6	410.9
55°	412.3	408.0	397.6	386.4	381.3
57.5°	379.7	376.3	366.7	356.0	350.9
60°	346.1	344.5	335.5	325.3	319.2
62.5°	314.4	312.0	302.7	295.2	289.6
65°	281.3	279.5	270.9	262.4	258.9
67.5°	248.0	245.9	237.9	232.0	226.7
70°	212.8	212.8	206.4	200.8	197.3
72.5°	179.5	179.7	175.5	169.6	168.0
75°	144.0	146.1	144.3	140.3	139.2
77.5°	112.5	114.4	114.7	113.3	111.5
80°	79.5	84.8	86.9	86.7	86.1
82.5°	50.9	59.5	63.5	63.2	63.7
85°	26.9	37.1	41.6	41.6	42.9
87.5°	9.3	18.9	20.3	18.7	17.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)