

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: P412098

Luminaire Tested: **MRI-4ASR-2-1000-L935-HEO**

Issue Date: 10/5/2020

Test Information

Test Method: LM-79-08
Report Number: P412098
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-2-1000-L935-HEO
Description: 2 FT, 4 INCH CHANNEL, HIGH EFFICIENCY LENS
Light Source: (196) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

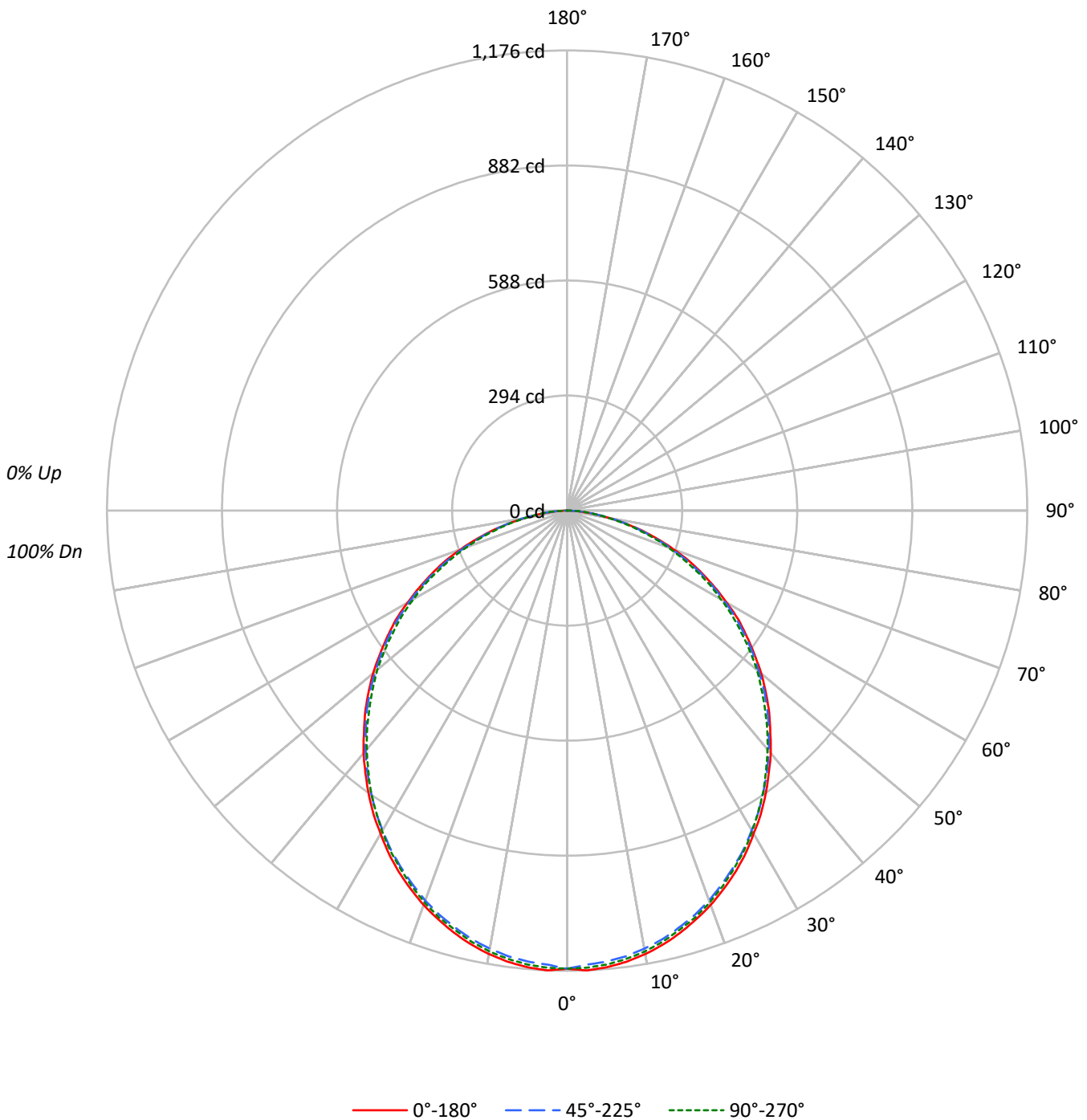
Lumens per Lamp: N/A
Luminaire Lumens: 3121.0 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.32
Luminous Opening: Rectangular (W 0.33' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 34.9
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°	18902	18902	18902
5°	18981	18751	18872
10°	18871	18638	18754
15°	18671	18447	18539
20°	18431	18222	18309
25°	18146	17915	17977
30°	17775	17583	17635
35°	17430	17243	17243
40°	17064	16897	16790
45°	16673	16538	16312
50°	16257	16068	15910
55°	15772	15595	15294
60°	15222	15019	14660
65°	14583	14311	13872
70°	13652	13279	12925
75°	12420	12127	11659
80°	10172	10358	9921
85°	7318	8262	8855



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.5	3.5
10°-20°	313.2	10.0
20°-30°	465.8	14.9
30°-40°	549.2	17.6
40°-50°	558.0	17.9
50°-60°	495.2	15.9
60°-70°	370.5	11.9
70°-80°	205.2	6.6
80°-90°	53.3	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°	889.5	28.5
0°-40°	1438.7	46.1
0°-60°	2491.9	79.8
0°-90°	3121.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3121.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1171	1171	1171	1171	1171	
5°	1171	1168	1157	1166	1164	111
15°	1117	1115	1104	1112	1109	315
25°	1019	1015	1006	1011	1009	469
35°	884	883	875	876	875	553
45°	730	730	724	718	714	563
55°	560	563	554	547	543	501
65°	382	384	375	368	363	378
75°	199	197	194	189	187	209
85°	40	45	45	46	48	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1170.7	1170.7	1170.7	1170.7	1170.7
2.5°	1176.3	1172.7	1161.3	1170.7	1169.2
5°	1171.1	1168.0	1156.9	1165.6	1164.4
7.5°	1162.8	1159.3	1149.0	1157.7	1155.7
10°	1151.0	1147.4	1136.8	1145.8	1143.9
12.5°	1135.6	1132.4	1122.5	1130.0	1128.5
15°	1117.0	1115.0	1103.6	1111.9	1109.1
17.5°	1095.7	1093.7	1083.4	1091.3	1089.7
20°	1072.7	1069.2	1060.5	1066.0	1065.6
22.5°	1046.3	1043.1	1033.2	1040.0	1038.8
25°	1018.6	1014.7	1005.6	1010.7	1009.1
27.5°	987.8	983.8	976.3	980.3	979.5
30°	953.4	952.2	943.1	946.7	945.9
32.5°	921.0	917.9	911.5	911.1	910.0
35°	884.3	882.7	874.8	876.0	874.8
37.5°	846.7	846.0	839.2	837.7	835.3
40°	809.6	807.2	801.7	798.5	796.6
42.5°	768.5	769.7	762.2	758.6	757.0
45°	730.2	730.2	724.3	718.3	714.4
47.5°	689.1	689.5	683.2	675.7	673.3
50°	647.2	648.0	639.7	633.4	633.4
52.5°	603.3	605.7	597.8	591.1	588.3
55°	560.3	562.6	554.0	546.8	543.3
57.5°	518.8	518.4	511.3	501.8	501.0
60°	471.4	474.1	465.1	457.9	454.0
62.5°	426.3	429.9	420.0	413.3	410.9
65°	381.7	384.1	374.6	368.3	363.1
67.5°	337.8	337.0	328.3	321.2	318.5
70°	289.2	290.8	281.3	276.2	273.8
72.5°	243.8	245.4	237.1	233.5	229.6
75°	199.1	197.2	194.4	188.9	186.9
77.5°	151.7	153.7	152.9	147.0	146.2
80°	109.4	113.8	111.4	107.1	106.7
82.5°	72.7	77.0	75.9	74.7	73.5
85°	39.5	45.0	44.6	46.2	47.8
87.5°	15.0	19.4	22.9	22.5	23.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)