

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: P183400

Luminaire Tested: **MAO-G-24-4-LD4-2-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183400
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34511)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: MAO-G-24-4-LD4-2-STD
Description:
Light Source: 2UT217042A8404A
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6703.8 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

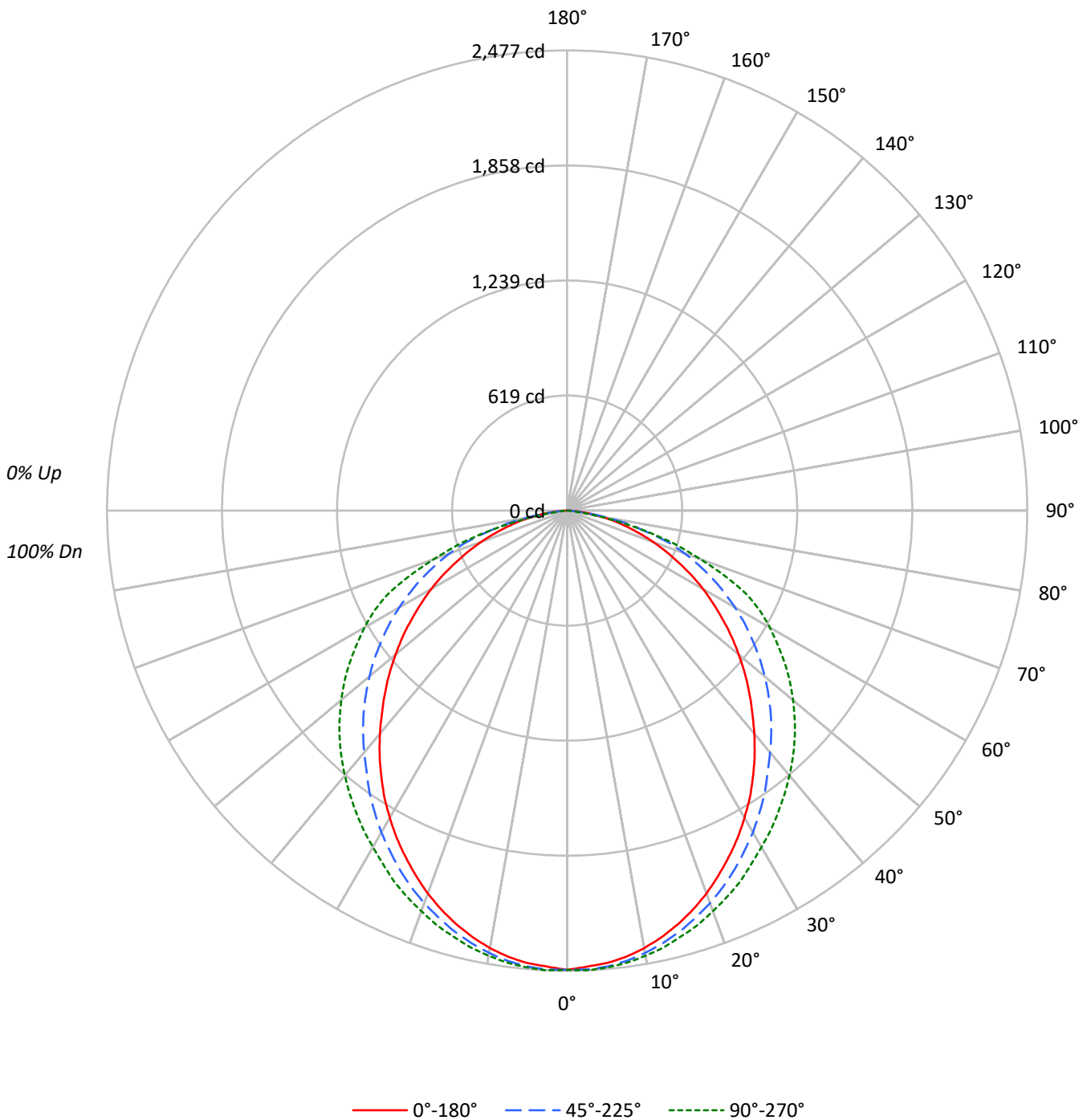
Input Watts (W): 69.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	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	51	46		56	50	46	44
6	70	57	48	42	68	56	48	41	54	47	41		52	46	41		51	45	40	38
7	65	52	43	37	63	51	42	37	49	42	36		48	41	36		46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32		44	37	32		43	37	32	30
9	57	43	35	29	55	43	35	29	42	34	29		40	34	29		39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27		37	31	26		37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6653	6653	6653
5°	6605	6655	6669
10°	6533	6607	6649
15°	6421	6534	6609
20°	6280	6440	6571
25°	6110	6331	6542
30°	5931	6215	6499
35°	5731	6093	6509
40°	5504	5968	6539
45°	5274	5899	6594
50°	5044	5816	6645
55°	4795	5716	6708
60°	4545	5619	6785
65°	4223	5484	6788
70°	3874	5299	5965
75°	3413	4644	4786
80°	2806	3409	2543
85°	2038	1411	784



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.4	3.5
10°-20°	660.4	9.9
20°-30°	981.7	14.6
30°-40°	1162.9	17.3
40°-50°	1198.9	17.9
50°-60°	1095.3	16.3
60°-70°	851.1	12.7
70°-80°	446.1	6.7
80°-90°	73.9	1.1
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°	1875.6	28.0
0°-40°	3038.5	45.3
0°-60°	5332.7	79.5
0°-90°	6703.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6703.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2472	2472	2472	2472	2472	
5°	2445	2452	2464	2469	2469	232
15°	2305	2318	2345	2369	2372	649
25°	2058	2080	2132	2183	2203	948
35°	1745	1775	1855	1941	1982	1091
45°	1386	1433	1550	1672	1733	1070
55°	1022	1091	1218	1362	1430	916
65°	663	736	861	1004	1066	658
75°	328	377	447	470	460	351
85°	66	71	46	32	25	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2472.2	2472.2	2472.2	2472.2	2472.2
2.5°	2457.0	2462.1	2472.2	2477.3	2477.3
5°	2445.2	2451.9	2463.8	2468.9	2468.9
7.5°	2423.2	2429.9	2445.2	2455.3	2455.3
10°	2391.0	2401.2	2418.1	2431.6	2433.3
12.5°	2352.1	2363.9	2384.3	2402.9	2407.9
15°	2304.7	2318.3	2345.3	2369.0	2372.4
17.5°	2252.3	2267.5	2298.0	2328.4	2338.6
20°	2193.0	2210.0	2248.9	2284.4	2294.6
22.5°	2127.0	2147.4	2193.0	2237.0	2250.6
25°	2057.7	2079.7	2132.1	2182.9	2203.2
27.5°	1986.6	2010.3	2066.1	2125.4	2145.7
30°	1908.8	1934.1	2000.1	2064.4	2091.5
32.5°	1830.9	1856.3	1927.4	2001.8	2039.1
35°	1744.6	1775.1	1854.6	1940.9	1981.5
37.5°	1658.3	1693.9	1773.4	1880.0	1922.3
40°	1566.9	1605.9	1698.9	1815.7	1861.4
42.5°	1475.6	1517.9	1626.2	1746.3	1798.8
45°	1385.9	1433.3	1550.0	1671.9	1732.8
47.5°	1297.9	1343.6	1470.5	1600.8	1661.7
50°	1204.8	1255.6	1389.3	1528.0	1587.2
52.5°	1116.8	1179.4	1306.3	1446.8	1511.1
55°	1022.1	1091.4	1218.4	1362.2	1429.9
57.5°	932.4	1005.1	1133.7	1279.3	1343.6
60°	844.4	913.8	1044.1	1191.3	1260.7
62.5°	754.7	825.8	951.0	1098.2	1171.0
65°	663.3	736.1	861.3	1003.5	1066.1
67.5°	575.3	643.0	766.5	898.5	918.8
70°	492.4	550.0	673.5	749.6	758.1
72.5°	407.8	463.7	572.0	602.4	621.0
75°	328.3	377.4	446.7	470.4	460.3
77.5°	257.2	296.1	338.4	321.5	304.6
80°	181.1	209.8	220.0	189.5	164.1
82.5°	120.1	137.1	116.8	76.1	50.8
85°	66.0	71.1	45.7	32.2	25.4
87.5°	25.4	27.1	20.3	15.2	13.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)