

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: P183402

Luminaire Tested: **MAO-G-24-2-LD4-3-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183402
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34512)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: MAO-G-24-2-LD4-3-STD
Description:
Light Source: 2UT217042A8404A
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4814.4 lumens
Efficiency: N/A
Efficacy: 92.8 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

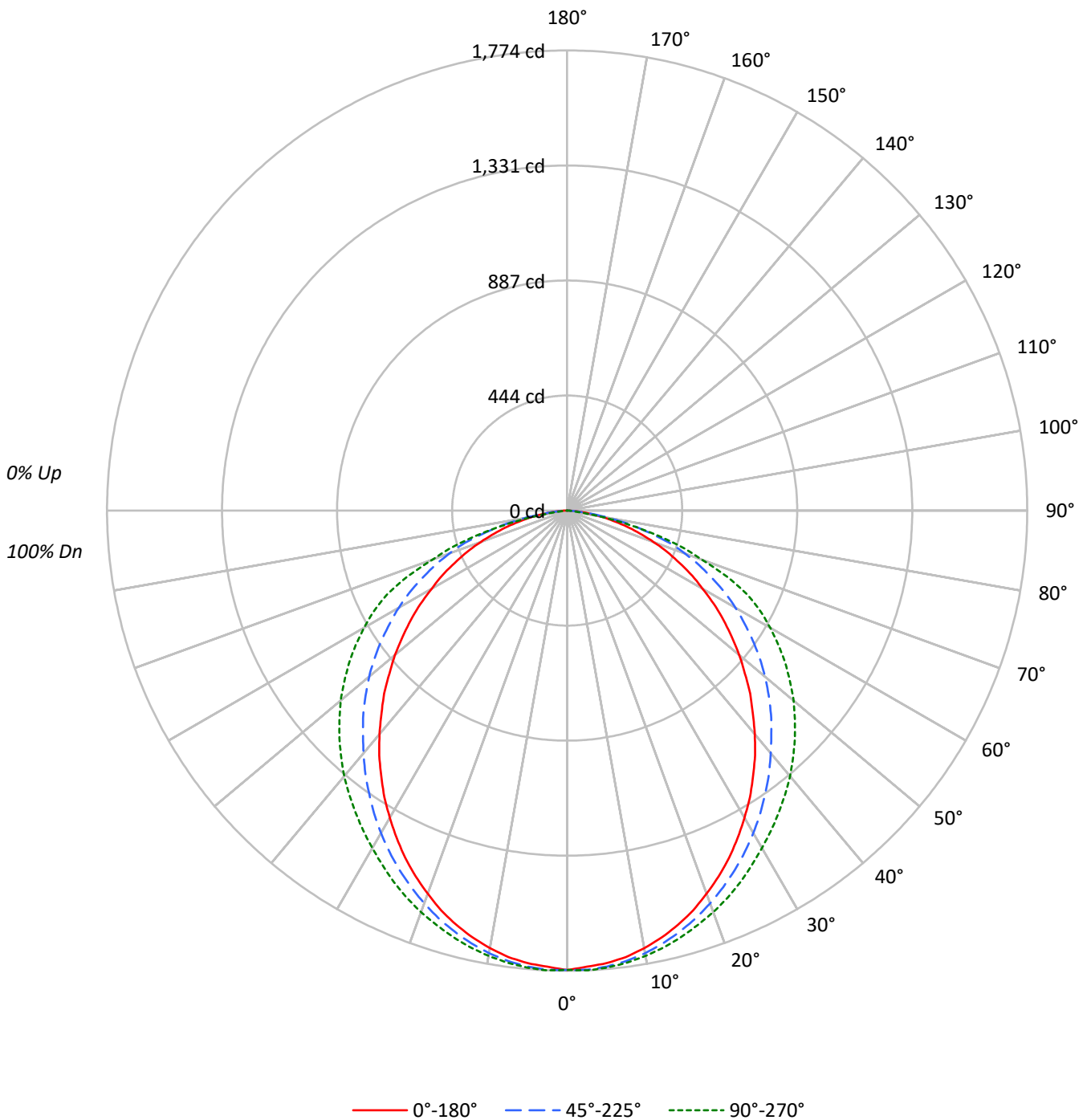
Input Watts (W): 51.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	63	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	50
5	76	63	54	48	74	62	54	47	60	52	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	47	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	41	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°	4765	4765	4765
5°	4731	4766	4777
10°	4681	4734	4763
15°	4605	4679	4741
20°	4500	4614	4717
25°	4385	4540	4692
30°	4248	4460	4668
35°	4106	4373	4670
40°	3953	4287	4696
45°	3796	4230	4725
50°	3627	4172	4772
55°	3453	4099	4817
60°	3247	4036	4864
65°	3043	3930	4884
70°	2793	3799	4337
75°	2471	3360	3581
80°	2056	2510	1880
85°	1433	1031	577



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.2	3.5
10°-20°	473.3	9.8
20°-30°	704.3	14.6
30°-40°	834.8	17.3
40°-50°	859.9	17.9
50°-60°	785.2	16.3
60°-70°	611.5	12.7
70°-80°	324.5	6.7
80°-90°	53.6	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°	1344.8	27.9
0°-40°	2179.6	45.3
0°-60°	3824.7	79.4
0°-90°	4814.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4814.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1771	1771	1771	1771	1771	
5°	1751	1756	1764	1768	1768	166
15°	1653	1660	1680	1699	1702	465
25°	1477	1491	1529	1566	1580	679
35°	1250	1274	1331	1394	1422	782
45°	997	1027	1111	1201	1242	768
55°	736	782	874	980	1027	657
65°	478	527	617	721	767	475
75°	238	273	323	344	344	252
85°	46	50	33	24	19	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1770.9	1770.9	1770.9	1770.9	1770.9
2.5°	1760.3	1764.4	1771.7	1775.0	1774.2
5°	1751.4	1756.3	1764.4	1768.5	1768.5
7.5°	1735.9	1740.8	1751.4	1757.9	1757.9
10°	1713.1	1719.6	1732.6	1742.4	1743.2
12.5°	1685.4	1692.7	1709.0	1722.1	1724.5
15°	1652.9	1660.2	1679.7	1699.3	1701.7
17.5°	1616.2	1624.4	1648.0	1669.9	1674.8
20°	1571.4	1583.6	1611.3	1638.2	1647.2
22.5°	1526.6	1538.9	1571.4	1604.8	1615.4
25°	1477.0	1490.8	1529.1	1566.5	1580.4
27.5°	1423.2	1442.0	1483.5	1525.8	1541.3
30°	1367.1	1387.4	1435.5	1483.5	1502.2
32.5°	1310.9	1332.1	1385.0	1437.9	1463.1
35°	1249.8	1274.2	1331.2	1393.9	1421.6
37.5°	1189.6	1215.6	1278.3	1348.3	1380.1
40°	1125.2	1152.1	1220.5	1300.3	1336.9
42.5°	1059.3	1089.4	1165.1	1251.4	1289.7
45°	997.4	1026.7	1111.4	1201.0	1241.7
47.5°	929.0	963.2	1053.6	1148.9	1190.4
50°	866.3	901.3	996.6	1095.1	1139.9
52.5°	799.6	843.5	936.3	1037.3	1082.9
55°	736.0	781.6	873.6	979.5	1026.7
57.5°	670.9	717.3	811.0	916.8	966.5
60°	603.3	652.2	749.9	854.9	903.8
62.5°	544.7	589.5	685.6	787.3	840.3
65°	477.9	526.8	617.2	721.4	767.0
67.5°	417.7	460.0	551.2	648.9	668.5
70°	355.0	394.1	482.8	539.8	551.2
72.5°	293.1	332.2	412.8	442.9	460.0
75°	237.7	272.8	323.2	343.6	344.4
77.5°	181.6	215.0	246.7	239.4	226.4
80°	132.7	156.3	162.0	138.4	121.3
82.5°	87.9	98.5	87.1	54.6	33.4
85°	46.4	49.7	33.4	23.6	18.7
87.5°	17.1	18.7	13.8	11.4	9.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)