

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: P183403

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183403
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-LO
Description:
Light Source: 2UT217042A8404A
Ballast/Driver: ELECTRONIC DRIVER

Summary

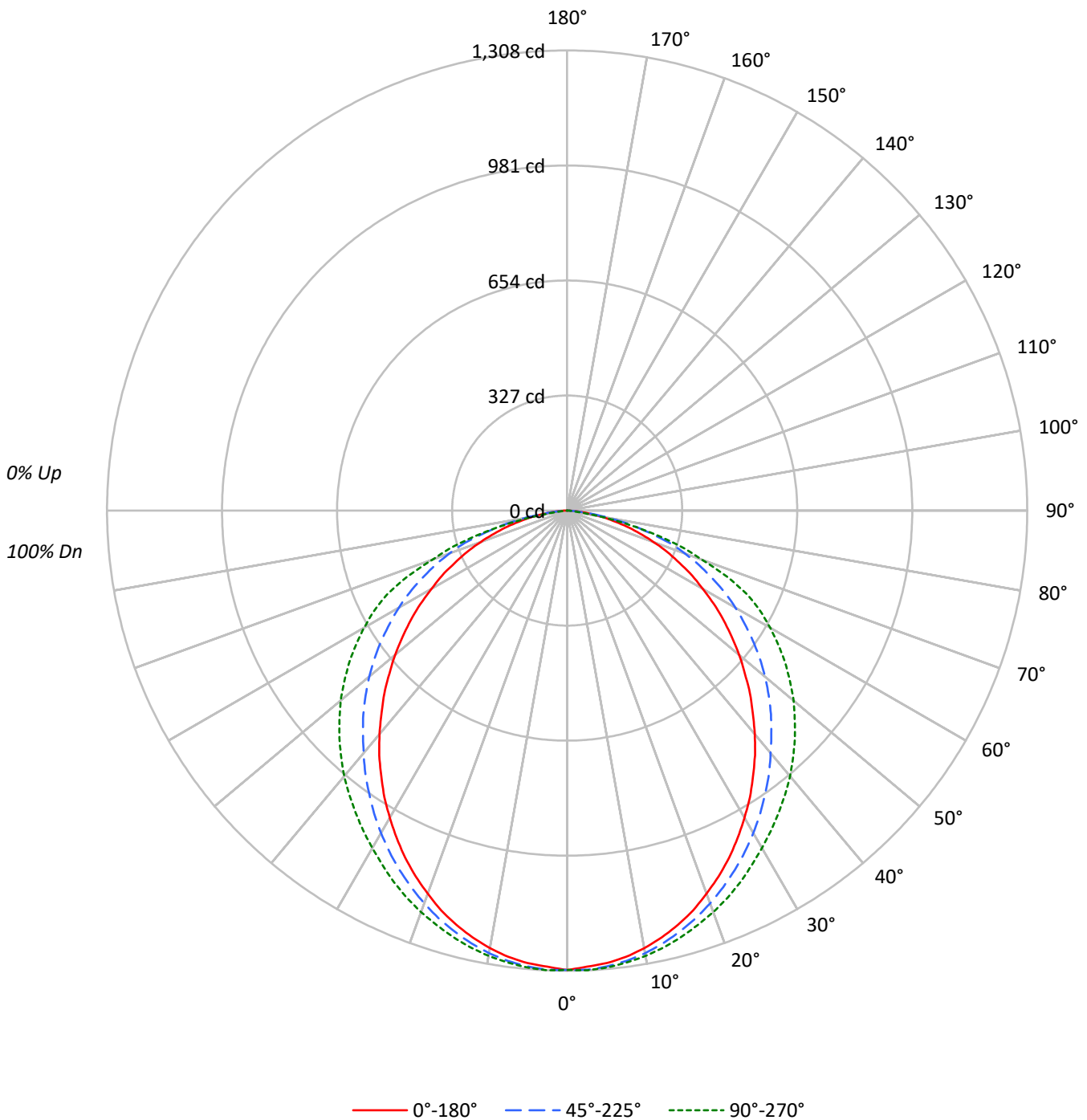
Lumens per Lamp: N/A
Luminaire Lumens: 3549.5 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 37
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°	3513	3513	3513
5°	3488	3514	3522
10°	3451	3490	3512
15°	3395	3450	3495
20°	3318	3402	3478
25°	3233	3347	3460
30°	3132	3288	3441
35°	3027	3224	3443
40°	2914	3161	3463
45°	2798	3118	3484
50°	2674	3076	3518
55°	2546	3022	3552
60°	2394	2976	3586
65°	2244	2897	3601
70°	2059	2801	3198
75°	1823	2478	2640
80°	1516	1852	1385
85°	1056	760	426



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.3	3.5
10°-20°	349.0	9.8
20°-30°	519.2	14.6
30°-40°	615.5	17.3
40°-50°	633.9	17.9
50°-60°	578.9	16.3
60°-70°	450.9	12.7
70°-80°	239.3	6.7
80°-90°	39.5	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°	991.5	27.9
0°-40°	1606.9	45.3
0°-60°	2819.8	79.4
0°-90°	3549.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3549.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1306	1306	1306	1306	1306	
5°	1291	1295	1301	1304	1304	122
15°	1219	1224	1238	1253	1255	343
25°	1089	1099	1127	1155	1165	501
35°	921	939	982	1028	1048	576
45°	735	757	819	885	915	566
55°	543	576	644	722	757	485
65°	352	388	455	532	566	350
75°	175	201	238	253	254	186
85°	34	37	25	17	14	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1305.6	1305.6	1305.6	1305.6	1305.6
2.5°	1297.8	1300.8	1306.2	1308.6	1308.0
5°	1291.2	1294.8	1300.8	1303.8	1303.8
7.5°	1279.8	1283.4	1291.2	1296.0	1296.0
10°	1263.0	1267.8	1277.4	1284.6	1285.2
12.5°	1242.6	1248.0	1260.0	1269.6	1271.4
15°	1218.6	1224.0	1238.4	1252.8	1254.6
17.5°	1191.6	1197.6	1215.0	1231.2	1234.8
20°	1158.5	1167.6	1188.0	1207.8	1214.4
22.5°	1125.5	1134.5	1158.5	1183.2	1191.0
25°	1088.9	1099.1	1127.3	1154.9	1165.2
27.5°	1049.3	1063.1	1093.7	1124.9	1136.3
30°	1007.9	1022.9	1058.3	1093.7	1107.5
32.5°	966.5	982.1	1021.1	1060.1	1078.7
35°	921.4	939.4	981.5	1027.7	1048.1
37.5°	877.0	896.2	942.4	994.1	1017.5
40°	829.6	849.4	899.8	958.7	985.7
42.5°	781.0	803.2	859.0	922.6	950.9
45°	735.3	757.0	819.4	885.4	915.4
47.5°	684.9	710.1	776.8	847.0	877.6
50°	638.7	664.5	734.7	807.4	840.4
52.5°	589.5	621.9	690.3	764.8	798.4
55°	542.7	576.3	644.1	722.1	757.0
57.5°	494.6	528.9	597.9	675.9	712.5
60°	444.8	480.8	552.9	630.3	666.3
62.5°	401.6	434.6	505.4	580.5	619.5
65°	352.4	388.4	455.0	531.9	565.5
67.5°	307.9	339.2	406.4	478.4	492.8
70°	261.7	290.5	356.0	398.0	406.4
72.5°	216.1	244.9	304.3	326.6	339.2
75°	175.3	201.1	238.3	253.3	253.9
77.5°	133.9	158.5	181.9	176.5	166.9
80°	97.8	115.3	119.5	102.0	89.4
82.5°	64.8	72.6	64.2	40.2	24.6
85°	34.2	36.6	24.6	17.4	13.8
87.5°	12.6	13.8	10.2	8.4	7.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)