

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: P34510

Luminaire Tested: **MAO-G-24-2-LD4-1-LO**

Test Date: 10/05/15

Test Information

Test Method: LM-79-08
Report Number: P34510
Test Lab: INNOVATION CENTER-P3
Test Date: 10/05/15
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: MAO-G-24-2-LD4-1-LO
Description: FAILSAFE MAO LED 2X2 FIXTURE
Light Source: (42) NICHIA ELM 3500K LED
2UT217042A8404A
Ballast/Driver: (1) OSRAM ELECTRONIC DRIVER
OT25W/PRG1250C/UNV/DIM

Summary

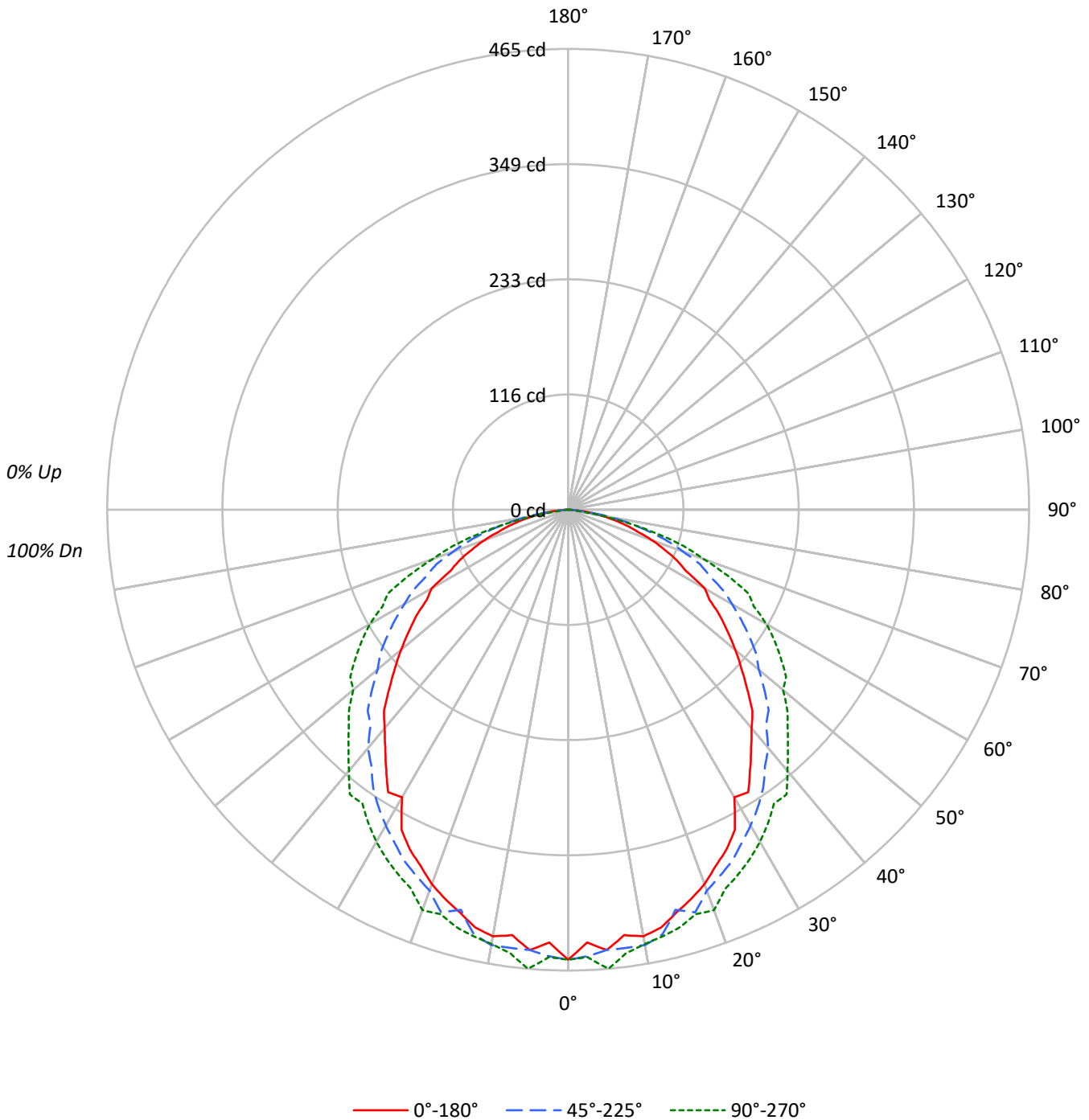
Lumens per Lamp: N/A
Luminaire Lumens: 1231.0 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.26 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 12.9
Input Voltage (V): 120.1
Input Current (Ain): 0.108
Voltage Rise (V): NR
Power Factor: 0.9993
Total Harmonic Distortion (THDi): 6.44%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: 5 HR
Ambient Temperature (°C): 25.0
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	78	96	89	83	78	85	80	76	82	78	74	79	76	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	64	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	41	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°	1222	1222	1222
5°	1205	1205	1256
10°	1194	1219	1216
15°	1173	1165	1215
20°	1151	1171	1231
25°	1122	1161	1205
30°	1041	1143	1203
35°	1051	1127	1189
40°	1012	1103	1208
45°	970	1088	1191
50°	921	1051	1185
55°	877	1046	1229
60°	856	1028	1243
65°	770	1000	1280
70°	708	968	1141
75°	624	873	957
80°	527	666	496
85°	371	247	124



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.6	3.5
10°-20°	121.0	9.8
20°-30°	180.2	14.6
30°-40°	213.4	17.3
40°-50°	219.7	17.9
50°-60°	199.8	16.2
60°-70°	156.1	12.7
70°-80°	84.5	6.9
80°-90°	13.7	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°	343.8	27.9
0°-40°	557.2	45.3
0°-60°	976.8	79.3
0°-90°	1231.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1231.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	454	454	454	454	454	
5°	446	439	446	456	465	42
15°	421	423	418	433	436	119
25°	378	382	391	401	406	173
35°	320	323	343	362	362	199
45°	255	267	286	305	313	197
55°	187	196	223	250	262	167
65°	121	133	157	185	201	120
75°	60	71	84	92	92	64
85°	12	13	8	6	4	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	454	454	454	454	454
2.5°	437	451	451	451	452
5°	446	439	446	456	465
7.5°	433	448	446	444	451
10°	437	444	446	446	445
12.5°	432	437	439	440	441
15°	421	423	418	433	436
17.5°	412	415	426	428	428
20°	402	404	409	419	430
22.5°	389	391	400	411	414
25°	378	382	391	401	406
27.5°	364	366	379	396	397
30°	335	354	368	383	387
32.5°	338	334	356	369	375
35°	320	323	343	362	362
37.5°	303	308	326	339	362
40°	288	294	314	333	344
42.5°	275	279	295	318	328
45°	255	267	286	305	313
47.5°	237	250	268	294	300
50°	220	231	251	283	283
52.5°	203	213	239	264	277
55°	187	196	223	250	262
57.5°	169	179	207	237	247
60°	159	164	191	219	231
62.5°	134	149	176	200	211
65°	121	133	157	185	201
67.5°	105	116	144	164	174
70°	90	102	123	140	145
72.5°	73	85	105	117	122
75°	60	71	84	92	92
77.5°	46	55	64	65	61
80°	34	40	43	37	32
82.5°	22	25	24	13	8
85°	12	13	8	6	4
87.5°	4	4	3	3	2
90°	0	0	0	0	0

(END OF REPORT)