

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: P189184

Luminaire Tested: **MAE-G-2-LD4-UNV-AMBIENT-1LO-40-WDDCPH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189184
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27581)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-LD4-UNV-AMBIENT-1LO-40-WDDCPH
Description: FAILSAFE 2X2 LED MEDICAL AMBIENT LUMINAIRE
Light Source: (42) 4000K NICHIA LEDS
2UT119028A8404A
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1070.9 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32
Luminous Opening: Circular (Dia: 1.12' x H: 0')
CIE Type: Direct

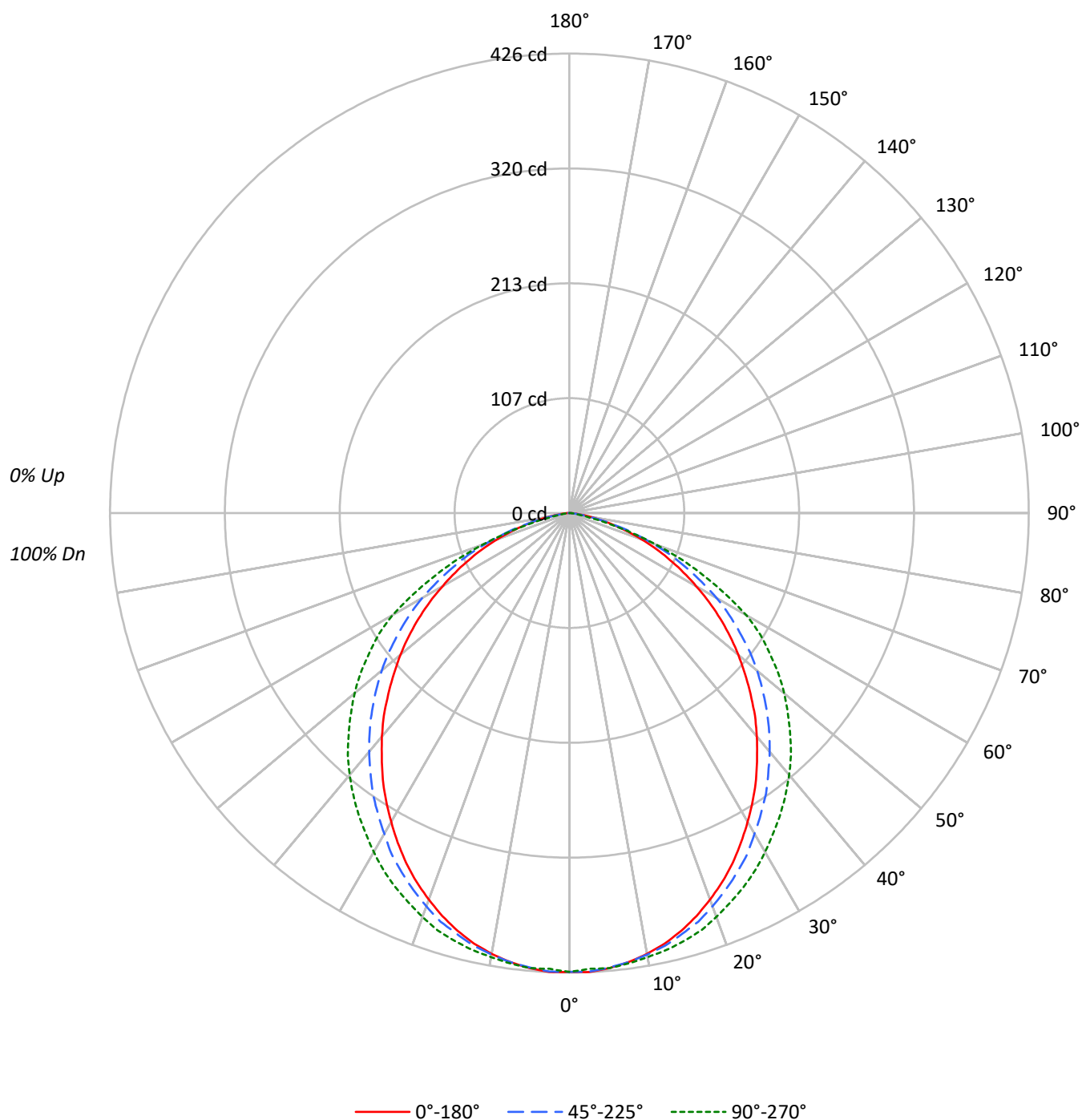
Input Watts (W): 12.35
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	92	82	74	68	90	80	73	67	77	71	66	75	70	65	72	68	64	62		
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	65	60	55	53		
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46		
6	72	59	50	44	70	58	50	44	56	49	43	55	48	43	53	47	43	41		
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	48	43	38	36		
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32		
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29		
10	54	41	34	29	53	41	34	28	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4607	4607	4607
5°	4603	4597	4603
10°	4563	4570	4596
15°	4494	4528	4604
20°	4394	4471	4591
25°	4277	4395	4570
30°	4133	4294	4538
35°	3988	4200	4506
40°	3824	4084	4481
45°	3637	3965	4433
50°	3443	3826	4382
55°	3225	3640	4276
60°	2943	3420	4108
65°	2634	3057	3528
70°	2248	2577	2694
75°	1740	1870	1510
80°	1147	992	536
85°	609	460	298



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.2	3.8
10°-20°	114.2	10.7
20°-30°	169.7	15.8
30°-40°	199.6	18.6
40°-50°	201.4	18.8
50°-60°	174.9	16.3
60°-70°	119.0	11.1
70°-80°	46.4	4.3
80°-90°	5.5	0.5
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°	324.1	30.3
0°-40°	523.6	48.9
0°-60°	899.9	84.0
0°-90°	1070.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1070.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	425	425	425	425	425	
5°	424	423	423	423	424	40
15°	401	402	404	408	411	113
25°	358	360	368	377	382	165
35°	302	305	318	332	341	188
45°	238	244	259	279	290	183
55°	171	176	193	215	226	152
65°	103	108	119	132	138	102
75°	42	44	45	40	36	45
85°	5	5	4	3	2	7
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	425.4	425.4	425.4	425.4	425.4
2.5°	426.0	426.0	425.4	423.5	422.9
5°	423.5	422.9	422.9	422.9	423.5
7.5°	419.9	419.9	419.9	420.5	421.1
10°	415.0	415.0	415.6	416.8	418.0
12.5°	408.8	409.5	410.7	413.1	415.0
15°	400.9	401.5	403.9	408.2	410.7
17.5°	391.7	393.5	397.2	402.1	405.8
20°	381.3	383.1	388.0	394.2	398.4
22.5°	370.3	372.1	378.2	385.6	390.5
25°	358.0	359.9	367.8	377.0	382.5
27.5°	344.6	347.0	356.8	366.6	373.3
30°	330.5	333.6	343.4	355.6	362.9
32.5°	316.4	320.1	330.5	344.6	351.9
35°	301.7	305.4	317.7	332.3	340.9
37.5°	285.8	290.1	303.0	320.7	329.3
40°	270.5	274.8	288.9	307.9	317.0
42.5°	254.6	259.5	274.2	293.8	304.2
45°	237.5	243.6	258.9	279.1	289.5
47.5°	220.9	226.5	243.0	263.8	274.8
50°	204.4	210.5	227.1	248.5	260.1
52.5°	187.9	193.4	210.5	232.0	244.2
55°	170.8	176.3	192.8	214.8	226.5
57.5°	153.6	160.4	175.7	197.1	209.9
60°	135.9	142.0	157.9	179.3	189.7
62.5°	119.3	124.9	138.3	158.5	163.4
65°	102.8	107.7	119.3	132.2	137.7
67.5°	87.5	91.2	101.6	110.2	112.6
70°	71.0	74.7	81.4	86.3	85.1
72.5°	56.3	58.8	63.0	62.4	59.4
75°	41.6	44.1	44.7	40.4	36.1
77.5°	29.4	30.6	28.8	22.6	18.4
80°	18.4	19.0	15.9	9.8	8.6
82.5°	10.4	10.4	7.3	6.1	4.9
85°	4.9	4.9	3.7	3.1	2.4
87.5°	1.8	1.8	1.2	1.2	1.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)