

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: P27477

Luminaire Tested: **MAE-G-4-LD4-UNV-AMBIENT-3LO-40-WDDCPH**

Test Date: 02/08/16

Test Information

Test Method: LM-79-08
Report Number: P27477
Test Lab: INNOVATION CENTER-P2
Test Date: 02/08/16
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-LD4-UNV-AMBIENT-3LO-40-WDDCPH
Description: FAILSAFE 2X4 LED MEDICAL AMBIENT LUMINAIRE
Light Source: (252) 4000K NICHIA LEDS
2UT119028A8404A
Ballast/Driver: (3) OSRAM ELECTRONIC DRIVER
OT50W

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6878.6 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

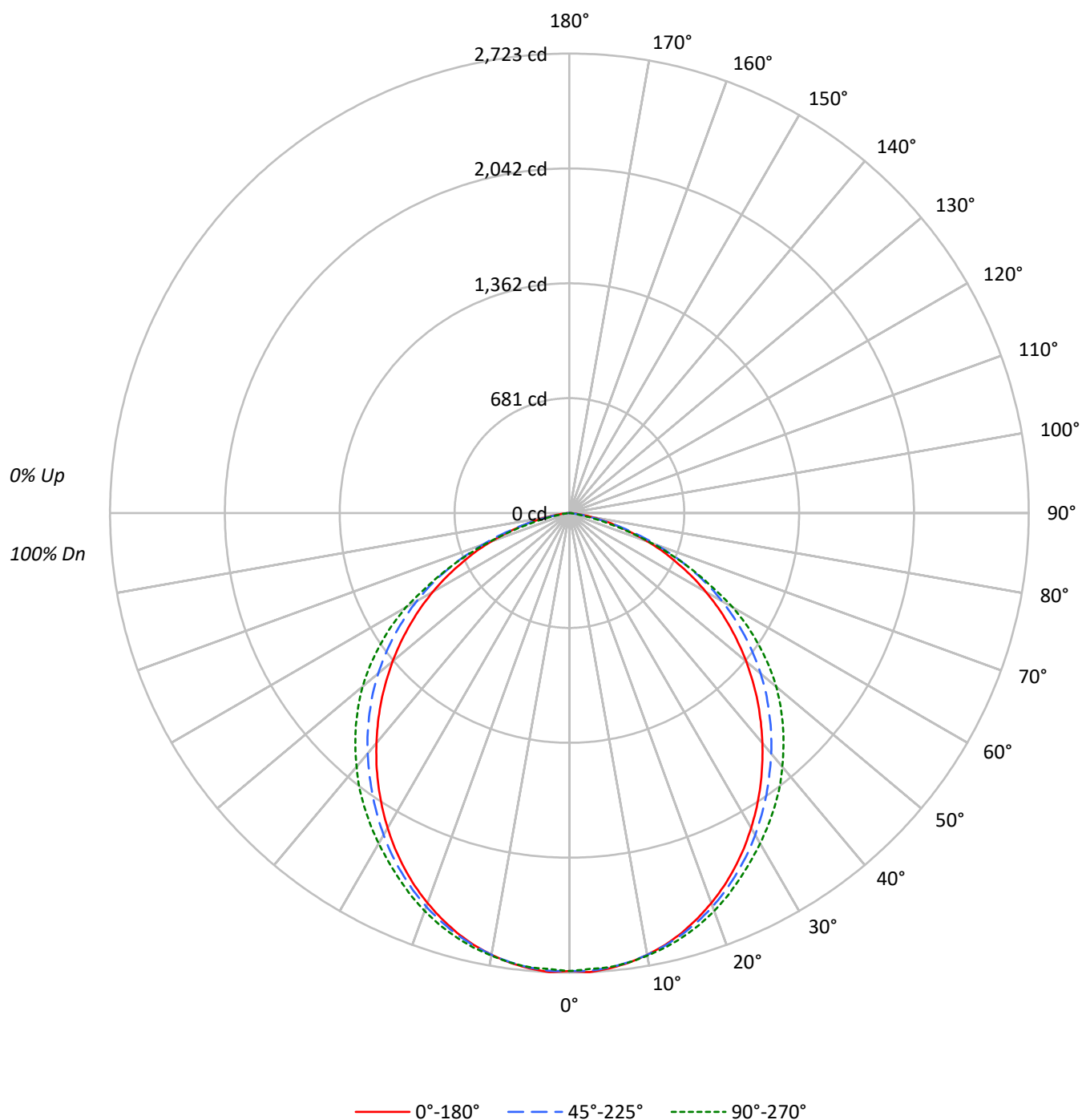
Input Watts (W): 71.4
Input Voltage (V): 120.05
Input Current (Ain): 0.59894
Voltage Rise (V): NR
Power Factor: 0.9961
Total Harmonic Distortion (THDi): 7.49%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: 24 HR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			0
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			100
1	110	105	102	98	107	103	100	96		99	96	93			95	93	91			86
2	100	93	86	81	98	91	85	80		87	82	78			84	80	76			73
3	92	82	74	68	89	80	73	67		77	71	66			75	69	65			62
4	84	73	64	58	82	71	64	57		69	62	57			67	61	56			53
5	78	65	56	50	76	64	56	50		62	55	49			60	54	49			46
6	72	59	50	44	70	58	50	44		56	49	43			54	48	43			41
7	67	53	45	39	65	53	44	39		51	44	38			50	43	38			36
8	62	49	40	35	60	48	40	35		47	40	34			46	39	34			32
9	58	45	37	31	57	44	36	31		43	36	31			42	36	31			29
10	54	41	34	28	53	41	33	28		40	33	28			39	33	28			26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3652	3652	3652
5°	3659	3652	3649
10°	3631	3631	3638
15°	3587	3599	3623
20°	3521	3554	3592
25°	3443	3492	3548
30°	3348	3423	3513
35°	3242	3344	3485
40°	3126	3269	3448
45°	3001	3187	3408
50°	2864	3096	3351
55°	2707	2974	3223
60°	2513	2815	3014
65°	2264	2563	2592
70°	1932	2148	2022
75°	1502	1565	1248
80°	961	814	473
85°	463	309	247



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.4	3.7
10°-20°	727.9	10.6
20°-30°	1082.2	15.7
30°-40°	1275.2	18.5
40°-50°	1292.2	18.8
50°-60°	1126.6	16.4
60°-70°	772.2	11.2
70°-80°	310.7	4.5
80°-90°	35.3	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°	2066.5	30.0
0°-40°	3341.6	48.6
0°-60°	5760.5	83.7
0°-90°	6878.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6878.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2714	2714	2714	2714	2714	
5°	2709	2693	2704	2701	2702	257
15°	2575	2565	2584	2594	2601	725
25°	2319	2319	2352	2372	2390	1067
35°	1974	1983	2036	2087	2122	1234
45°	1577	1594	1675	1750	1791	1216
55°	1154	1175	1268	1341	1374	1031
65°	711	740	805	816	814	705
75°	289	311	301	261	240	313
85°	30	27	20	18	16	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2714	2714	2714	2714	2714
2.5°	2723	2705	2715	2712	2705
5°	2709	2693	2704	2701	2702
7.5°	2688	2673	2685	2684	2687
10°	2658	2645	2658	2660	2663
12.5°	2621	2609	2625	2630	2636
15°	2575	2565	2584	2594	2601
17.5°	2521	2513	2536	2547	2559
20°	2459	2455	2482	2493	2509
22.5°	2393	2392	2420	2434	2453
25°	2319	2319	2352	2372	2390
27.5°	2240	2243	2281	2305	2326
30°	2155	2161	2203	2235	2261
32.5°	2066	2075	2120	2163	2193
35°	1974	1983	2036	2087	2122
37.5°	1878	1891	1948	2010	2047
40°	1780	1795	1861	1927	1963
42.5°	1679	1696	1770	1840	1878
45°	1577	1594	1675	1750	1791
47.5°	1473	1492	1580	1656	1698
50°	1368	1387	1479	1555	1601
52.5°	1261	1281	1375	1454	1492
55°	1154	1175	1268	1341	1374
57.5°	1046	1068	1158	1229	1254
60°	934	961	1046	1101	1120
62.5°	824	854	929	965	959
65°	711	740	805	816	814
67.5°	605	632	679	671	666
70°	491	522	546	530	514
72.5°	388	414	420	390	369
75°	289	311	301	261	240
77.5°	203	217	193	152	135
80°	124	134	105	73	61
82.5°	67	69	44	36	33
85°	30	27	20	18	16
87.5°	10	9	7	7	6
90°	0	0	0	0	0

(END OF REPORT)