

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: P27469

Luminaire Tested: **MAE-G-4-LD4-UNV-AMBIENT-1HI-40-WDDCPH**

Test Date: 02/08/16

Test Information

Test Method: LM-79-08
Report Number: P27469
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-1HI-40-WDDCPH
Description: FAILSAFE 2X4 LED MEDICAL AMBIENT LUMINAIRE
Light Source: (84) 4000K NICHIA LEDS
2UT119028A8404A
Ballast/Driver: (1) OSRAM ELECTRONIC DRIVER
OT50W

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3868.3 lumens
Efficiency: N/A
Efficacy: 85.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

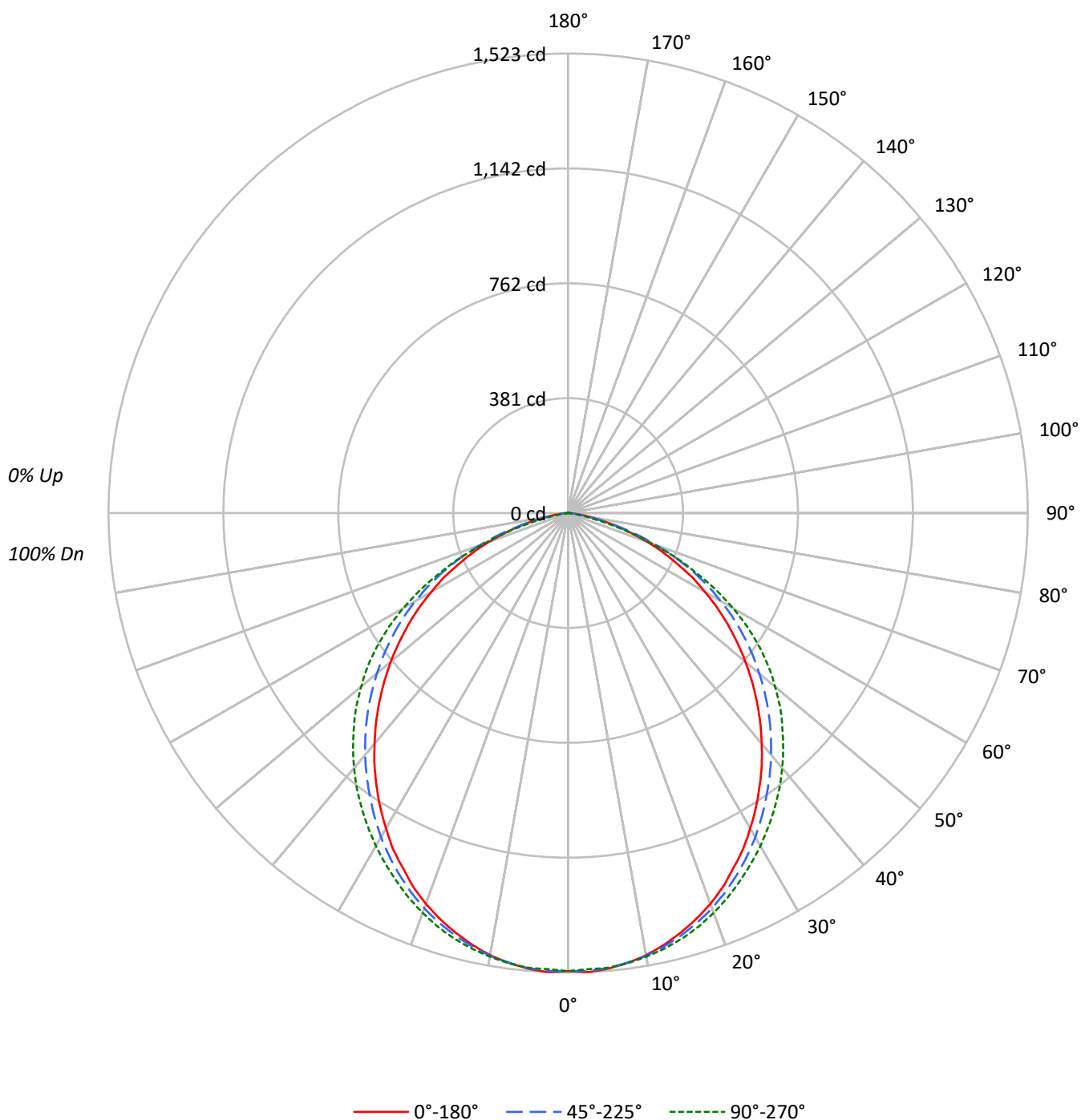
Input Watts (W): 45.1
Input Voltage (V): 120.04
Input Current (Ain): 0.37742
Voltage Rise (V): NR
Power Factor: 0.9993
Total Harmonic Distortion (THDi): 8.32%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: 24 HR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	110	105	102	98	107	103	100	96		99	96	93		95	93	91		92	90	88
2	100	93	86	81	98	91	85	80		87	82	78		84	80	76		81	78	75
3	92	82	74	68	89	80	73	67		77	71	66		75	69	65		72	68	64
4	84	73	64	58	82	71	63	57		69	62	57		67	61	56		64	59	55
5	78	65	56	50	75	64	56	50		62	55	49		60	54	49		58	53	48
6	72	59	50	44	70	58	50	44		56	49	43		54	48	43		53	47	42
7	67	53	45	39	65	52	44	39		51	44	38		50	43	38		48	42	38
8	62	49	40	35	60	48	40	35		47	39	34		45	39	34		44	38	34
9	58	45	37	31	56	44	36	31		43	36	31		42	35	31		41	35	31
10	54	41	34	28	53	41	33	28		40	33	28		39	33	28		38	32	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2042	2042	2042
5°	2048	2045	2044
10°	2033	2036	2040
15°	2006	2018	2034
20°	1973	1996	2019
25°	1926	1964	1998
30°	1875	1927	1979
35°	1817	1881	1960
40°	1753	1837	1937
45°	1682	1789	1910
50°	1605	1731	1873
55°	1518	1666	1816
60°	1410	1572	1698
65°	1270	1442	1487
70°	1098	1220	1157
75°	853	899	717
80°	558	465	271
85°	262	170	139



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.5	3.7
10°-20°	408.0	10.5
20°-30°	608.0	15.7
30°-40°	716.6	18.5
40°-50°	725.6	18.8
50°-60°	632.8	16.4
60°-70°	436.5	11.3
70°-80°	177.1	4.6
80°-90°	20.1	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°	1159.6	30.0
0°-40°	1876.2	48.5
0°-60°	3234.6	83.6
0°-90°	3868.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3868.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1518	1518	1518	1518	1518	
5°	1516	1506	1514	1512	1513	144
15°	1440	1435	1449	1456	1460	406
25°	1297	1299	1323	1336	1346	598
35°	1106	1113	1145	1175	1193	692
45°	884	894	940	985	1004	682
55°	647	660	710	758	774	578
65°	399	415	453	465	467	397
75°	164	177	173	149	138	177
85°	17	15	11	10	9	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1518	1518	1518	1518	1518
2.5°	1523	1513	1519	1517	1513
5°	1516	1506	1514	1512	1513
7.5°	1504	1495	1503	1502	1505
10°	1488	1480	1490	1490	1493
12.5°	1466	1460	1471	1474	1478
15°	1440	1435	1449	1456	1460
17.5°	1411	1407	1423	1431	1437
20°	1378	1374	1394	1402	1410
22.5°	1341	1339	1360	1371	1380
25°	1297	1299	1323	1336	1346
27.5°	1256	1256	1283	1300	1311
30°	1207	1211	1240	1260	1274
32.5°	1158	1163	1194	1218	1234
35°	1106	1113	1145	1175	1193
37.5°	1054	1060	1097	1130	1150
40°	998	1006	1046	1084	1103
42.5°	942	953	994	1036	1055
45°	884	894	940	985	1004
47.5°	826	839	884	932	953
50°	767	779	827	876	895
52.5°	707	719	769	818	838
55°	647	660	710	758	774
57.5°	586	601	650	691	705
60°	524	540	584	622	631
62.5°	465	479	521	547	553
65°	399	415	453	465	467
67.5°	340	355	383	384	387
70°	279	294	310	302	294
72.5°	220	235	240	224	214
75°	164	177	173	149	138
77.5°	114	124	111	86	77
80°	72	76	60	40	35
82.5°	39	40	25	20	19
85°	17	15	11	10	9
87.5°	6	5	4	4	3
90°	0	0	0	0	0

(END OF REPORT)