

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: P27581

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

Test Date: 03/07/16

Test Information

Test Method: LM-79-08
Report Number: P27581
Test Lab: INNOVATION CENTER-P2
Test Date: 03/07/16
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-LD4-UNV-AMBIENT-1HI-40-WDDCPH
Description: MAE 2X2 MEDICAL EXAMINATION LIGHT
Light Source: (42) NICHIA 4000K LED
2UT119028A8404A
Ballast/Driver: (1) OSRAM ELECTRONIC DRIVER PROGRAMMED @ 450mA
OT25W

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1749.7 lumens
Efficiency: N/A
Efficacy: 76.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

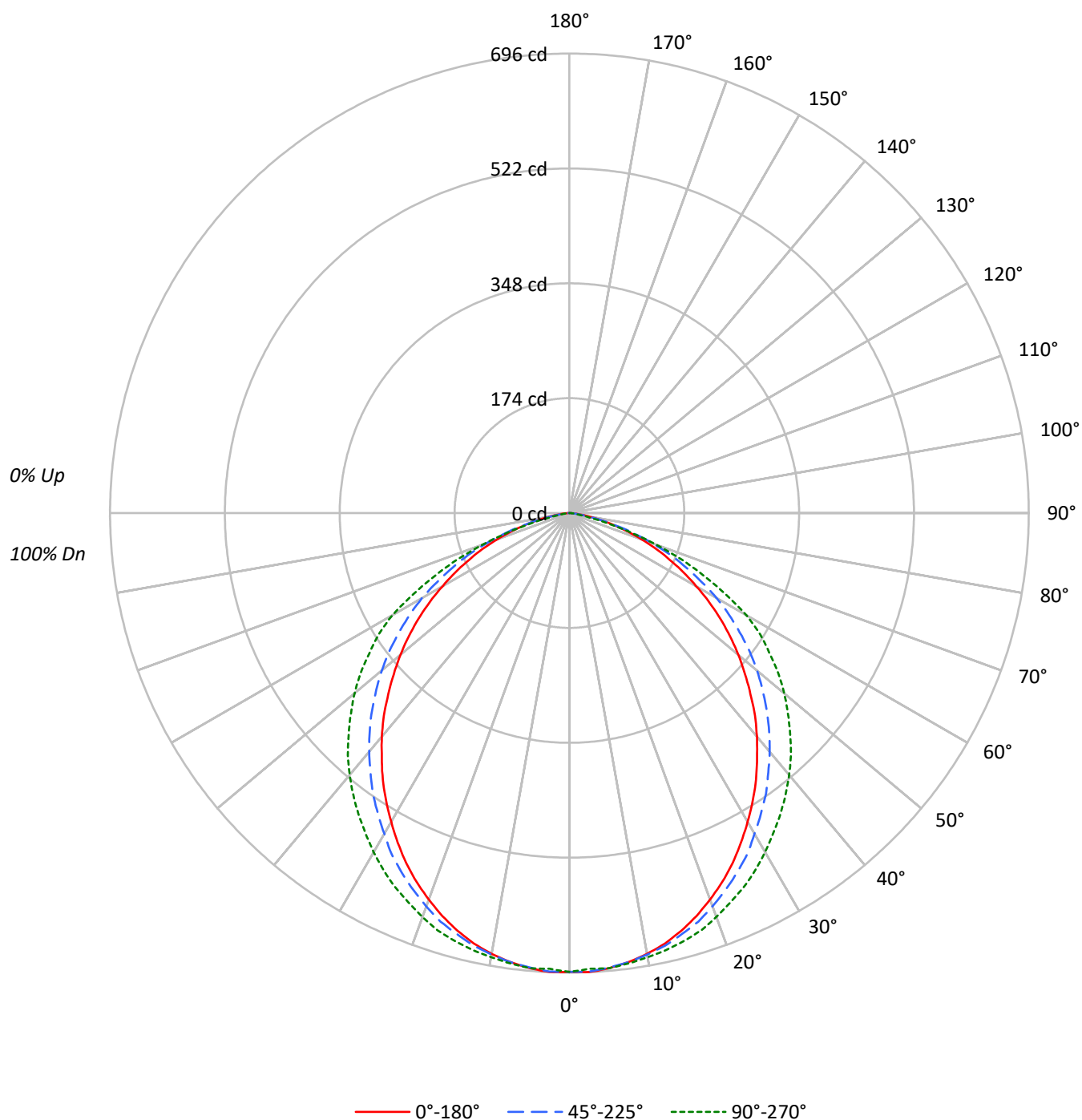
Input Watts (W): 22.8
Input Voltage (V): 120.1
Input Current (Ain): 0.191
Voltage Rise (V): NR
Power Factor: 0.9976
Total Harmonic Distortion (THDi): 5.73%
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 24 HR
Ambient Temperature (°C): 24.9
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1870	1870	1870
5°	1869	1867	1869
10°	1853	1855	1866
15°	1825	1839	1869
20°	1784	1816	1864
25°	1737	1784	1856
30°	1678	1743	1843
35°	1620	1705	1830
40°	1553	1658	1820
45°	1477	1610	1800
50°	1398	1553	1779
55°	1309	1478	1736
60°	1195	1389	1668
65°	1070	1242	1433
70°	913	1046	1094
75°	707	759	613
80°	465	403	217
85°	247	185	124



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.6	3.8
10°-20°	186.5	10.7
20°-30°	277.3	15.9
30°-40°	326.1	18.6
40°-50°	329.1	18.8
50°-60°	285.7	16.3
60°-70°	194.5	11.1
70°-80°	75.8	4.3
80°-90°	9.1	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°	529.5	30.3
0°-40°	855.6	48.9
0°-60°	1470.4	84.0
0°-90°	1749.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1749.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	695	695	695	695	695	
5°	692	691	691	691	692	66
15°	655	656	660	667	671	184
25°	585	588	601	616	625	269
35°	493	499	519	543	557	308
45°	388	398	423	456	473	300
55°	279	288	315	351	370	249
65°	168	176	195	216	225	167
75°	68	72	73	66	59	74
85°	8	8	6	5	4	12
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	695	695	695	695	695
2.5°	696	696	695	692	691
5°	692	691	691	691	692
7.5°	686	686	686	687	688
10°	678	678	679	681	683
12.5°	668	669	671	675	678
15°	655	656	660	667	671
17.5°	640	643	649	657	663
20°	623	626	634	644	651
22.5°	605	608	618	630	638
25°	585	588	601	616	625
27.5°	563	567	583	599	610
30°	540	545	561	581	593
32.5°	517	523	540	563	575
35°	493	499	519	543	557
37.5°	467	474	495	524	538
40°	442	449	472	503	518
42.5°	416	424	448	480	497
45°	388	398	423	456	473
47.5°	361	370	397	431	449
50°	334	344	371	406	425
52.5°	307	316	344	379	399
55°	279	288	315	351	370
57.5°	251	262	287	322	343
60°	222	232	258	293	310
62.5°	195	204	226	259	267
65°	168	176	195	216	225
67.5°	143	149	166	180	184
70°	116	122	133	141	139
72.5°	92	96	103	102	97
75°	68	72	73	66	59
77.5°	48	50	47	37	30
80°	30	31	26	16	14
82.5°	17	17	12	10	8
85°	8	8	6	5	4
87.5°	3	3	2	2	2
90°	0	0	0	0	0

(END OF REPORT)