

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: P27476

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

Test Date: 02/08/16

Test Information

Test Method: LM-79-08
Report Number: P27476
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-3STD-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: 9083.9 lumens
Efficiency: N/A
Efficacy: 89.3 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

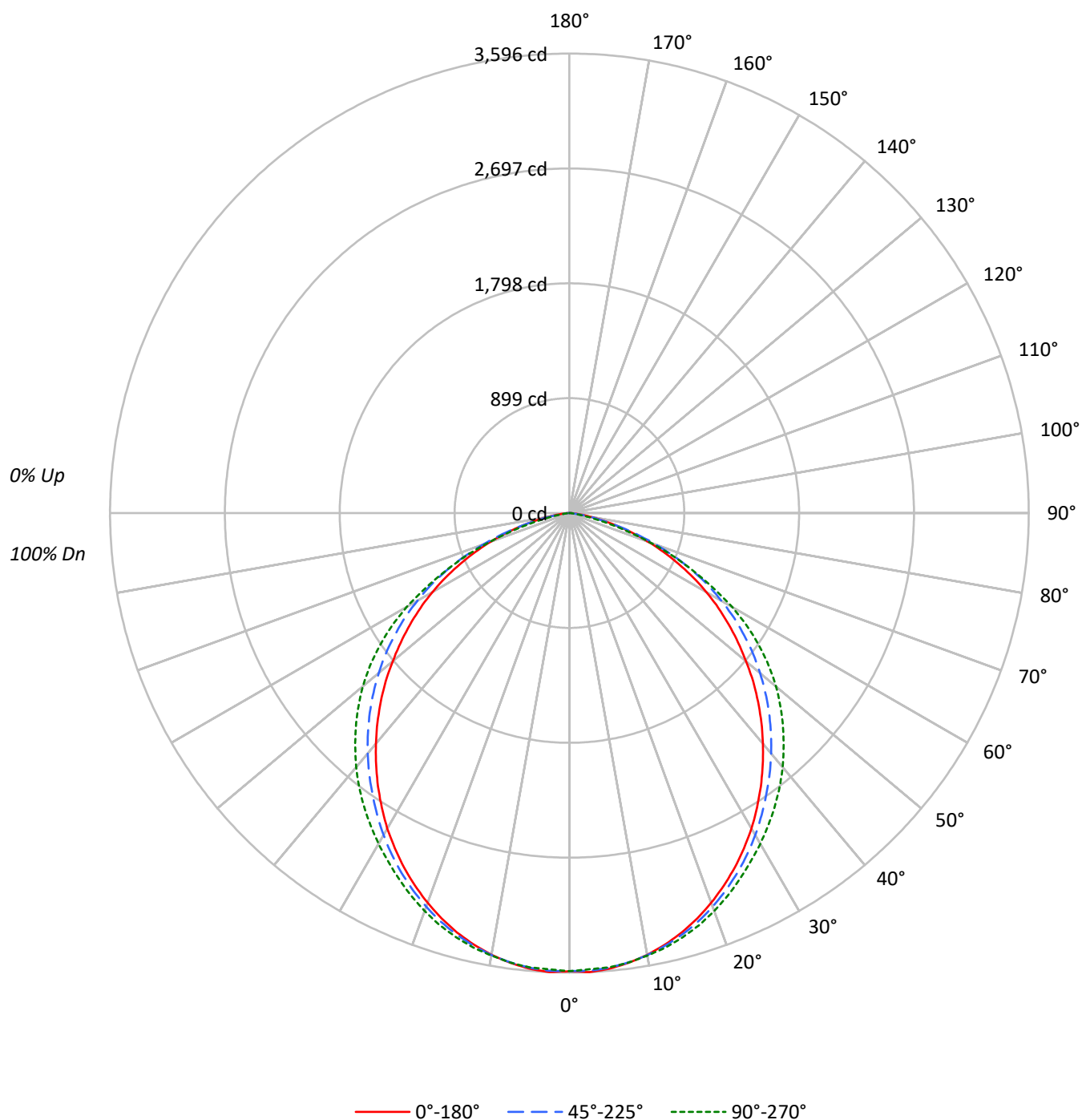
Input Watts (W): 101.7
Input Voltage (V): 120.05
Input Current (Ain): 0.85541
Voltage Rise (V): NR
Power Factor: 0.9984
Total Harmonic Distortion (THDi): 7.75%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: 24 HR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	64	57		69	62	57		67	61	56		65	59	55
5	78	65	56	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		54	48	43		53	47	43
7	67	53	45	39	65	53	44	39		51	44	38		50	43	38		48	42	38
8	62	49	40	35	60	48	40	35		47	40	34		46	39	34		44	38	34
9	58	45	37	31	57	44	36	31		43	36	31		42	36	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°	4824	4824	4824
5°	4835	4824	4820
10°	4796	4798	4804
15°	4733	4756	4785
20°	4648	4694	4745
25°	4546	4614	4690
30°	4429	4521	4642
35°	4290	4414	4604
40°	4140	4316	4560
45°	3973	4205	4498
50°	3778	4078	4419
55°	3575	3917	4260
60°	3337	3697	3958
65°	3005	3372	3400
70°	2581	2821	2636
75°	2001	2027	1617
80°	1309	1077	635
85°	618	417	340



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.6	3.7
10°-20°	961.3	10.6
20°-30°	1429.6	15.7
30°-40°	1685.3	18.6
40°-50°	1707.8	18.8
50°-60°	1488.0	16.4
60°-70°	1017.3	11.2
70°-80°	409.0	4.5
80°-90°	47.2	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°	2729.4	30.0
0°-40°	4414.7	48.6
0°-60°	7610.5	83.8
0°-90°	9083.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9083.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3585	3585	3585	3585	3585	
5°	3580	3557	3572	3567	3569	339
15°	3398	3386	3414	3426	3435	957
25°	3062	3063	3108	3135	3159	1409
35°	2612	2623	2687	2758	2803	1633
45°	2088	2111	2210	2314	2364	1610
55°	1524	1552	1670	1781	1816	1362
65°	944	979	1059	1072	1068	935
75°	385	412	390	343	311	417
85°	40	36	27	24	22	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3585	3585	3585	3585	3585
2.5°	3596	3571	3585	3582	3573
5°	3580	3557	3572	3567	3569
7.5°	3550	3530	3547	3545	3548
10°	3510	3492	3512	3514	3516
12.5°	3459	3444	3468	3474	3482
15°	3398	3386	3414	3426	3435
17.5°	3326	3318	3352	3366	3380
20°	3246	3239	3278	3294	3314
22.5°	3157	3157	3197	3218	3240
25°	3062	3063	3108	3135	3159
27.5°	2958	2963	3013	3044	3074
30°	2851	2855	2910	2952	2988
32.5°	2733	2742	2801	2857	2897
35°	2612	2623	2687	2758	2803
37.5°	2486	2502	2574	2655	2704
40°	2357	2373	2457	2548	2596
42.5°	2224	2242	2335	2431	2482
45°	2088	2111	2210	2314	2364
47.5°	1951	1975	2080	2192	2241
50°	1805	1838	1948	2061	2111
52.5°	1665	1695	1814	1923	1969
55°	1524	1552	1670	1781	1816
57.5°	1383	1411	1529	1619	1651
60°	1240	1270	1374	1453	1471
62.5°	1093	1123	1224	1273	1269
65°	944	979	1059	1072	1068
67.5°	798	831	892	882	873
70°	656	686	717	699	670
72.5°	517	549	551	514	480
75°	385	412	390	343	311
77.5°	269	287	252	201	175
80°	169	175	139	97	82
82.5°	91	92	59	48	44
85°	40	36	27	24	22
87.5°	13	12	10	9	8
90°	0	0	0	0	0

(END OF REPORT)