

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: P27475

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

Test Date: 02/08/16

Test Information

Test Method: LM-79-08
Report Number: P27475
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-3HI-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: 10961.9 lumens
Efficiency: N/A
Efficacy: 81.6 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

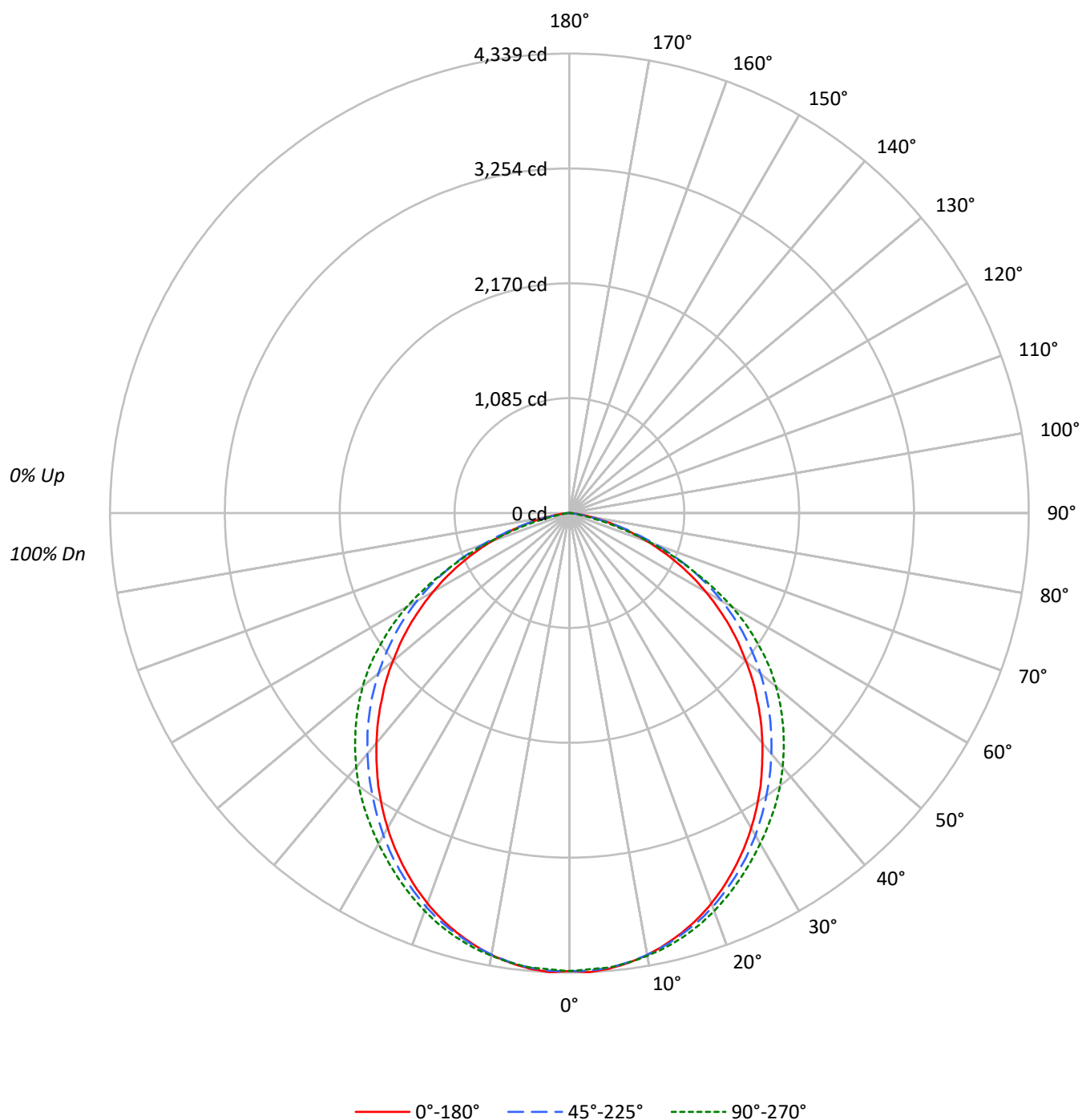
Input Watts (W): 134.4
Input Voltage (V): 120.03
Input Current (Ain): 1.1240
Voltage Rise (V): NR
Power Factor: 0.9993
Total Harmonic Distortion (THDi): 8.02%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: 24 HR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62		
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	65	59	55	53		
5	78	65	56	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	54	48	43	53	47	43	41		
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	36		
8	62	49	40	35	60	48	40	35	47	40	34	46	39	34	44	38	34	32		
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	29		
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5819	5819	5819
5°	5832	5820	5817
10°	5789	5786	5800
15°	5715	5733	5775
20°	5616	5667	5726
25°	5486	5573	5661
30°	5337	5458	5601
35°	5169	5333	5558
40°	4981	5213	5503
45°	4778	5084	5433
50°	4557	4927	5336
55°	4312	4736	5130
60°	4001	4475	4787
65°	3613	4082	4101
70°	3084	3426	3186
75°	2423	2501	1960
80°	1581	1286	759
85°	756	509	401



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	408.6	3.7
10°-20°	1159.9	10.6
20°-30°	1725.0	15.7
30°-40°	2032.8	18.5
40°-50°	2061.0	18.8
50°-60°	1795.9	16.4
60°-70°	1228.2	11.2
70°-80°	493.4	4.5
80°-90°	57.2	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°	3293.4	30.0
0°-40°	5326.2	48.6
0°-60°	9183.1	83.8
0°-90°	10961.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10961.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4325	4325	4325	4325	4325	
5°	4318	4292	4309	4304	4307	410
15°	4103	4085	4116	4133	4146	1156
25°	3695	3696	3754	3781	3813	1701
35°	3147	3161	3247	3327	3384	1966
45°	2511	2545	2672	2792	2855	1938
55°	1838	1877	2019	2146	2187	1641
65°	1135	1186	1282	1292	1288	1122
75°	466	497	481	413	377	501
85°	49	44	33	29	26	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4325	4325	4325	4325	4325
2.5°	4339	4310	4325	4322	4311
5°	4318	4292	4309	4304	4307
7.5°	4284	4260	4278	4277	4282
10°	4237	4213	4235	4239	4245
12.5°	4175	4155	4182	4190	4202
15°	4103	4085	4116	4133	4146
17.5°	4019	4004	4044	4060	4078
20°	3922	3911	3958	3973	3999
22.5°	3814	3808	3857	3880	3910
25°	3695	3696	3754	3781	3813
27.5°	3570	3572	3638	3676	3710
30°	3435	3441	3513	3560	3605
32.5°	3292	3304	3382	3446	3496
35°	3147	3161	3247	3327	3384
37.5°	2990	3013	3110	3205	3264
40°	2836	2859	2968	3073	3133
42.5°	2677	2706	2822	2939	2997
45°	2511	2545	2672	2792	2855
47.5°	2352	2382	2516	2641	2706
50°	2177	2215	2354	2485	2549
52.5°	2010	2045	2188	2322	2380
55°	1838	1877	2019	2146	2187
57.5°	1662	1709	1846	1952	1991
60°	1487	1534	1663	1750	1779
62.5°	1313	1363	1476	1534	1534
65°	1135	1186	1282	1292	1288
67.5°	957	1008	1081	1063	1051
70°	784	828	871	838	810
72.5°	616	658	665	617	582
75°	466	497	481	413	377
77.5°	325	343	309	240	211
80°	204	212	166	117	98
82.5°	110	111	72	59	55
85°	49	44	33	29	26
87.5°	17	15	12	11	9
90°	0	0	0	0	0

(END OF REPORT)