

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: P27471

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

Test Date: 02/08/16

Test Information

Test Method: LM-79-08
Report Number: P27471
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-1LO-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: 2367.1 lumens
Efficiency: N/A
Efficacy: 98.6 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

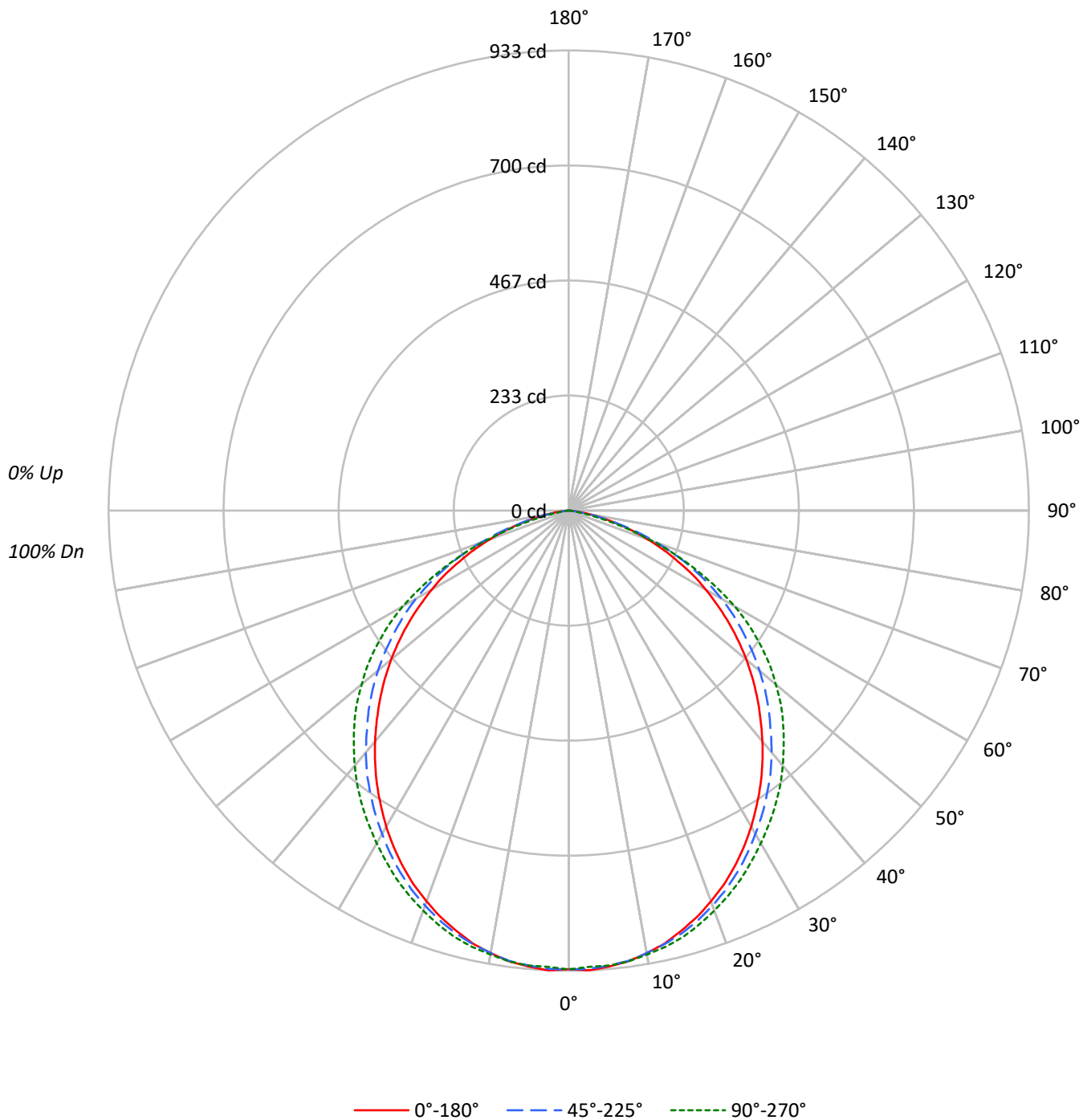
Input Watts (W): 24
Input Voltage (V): 120.13
Input Current (Ain): 0.20100
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 7.82%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: 24 HR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	75	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			40
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	39	34			45	39	34			32
9	58	45	37	31	57	44	36	31		43	36	31			42	35	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°	1251	1251	1251
5°	1253	1251	1251
10°	1245	1245	1249
15°	1229	1236	1247
20°	1207	1220	1236
25°	1182	1201	1225
30°	1150	1176	1210
35°	1114	1151	1199
40°	1073	1124	1186
45°	1029	1092	1170
50°	984	1057	1147
55°	929	1013	1112
60°	864	963	1047
65°	777	879	911
70°	669	744	708
75°	520	551	431
80°	341	287	163
85°	154	108	77



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.9	3.7
10°-20°	249.8	10.6
20°-30°	372.1	15.7
30°-40°	438.9	18.5
40°-50°	444.0	18.8
50°-60°	387.3	16.4
60°-70°	267.1	11.3
70°-80°	107.9	4.6
80°-90°	12.1	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°	709.8	30.0
0°-40°	1148.7	48.5
0°-60°	1980.0	83.6
0°-90°	2367.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2367.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	930	930	930	930	930	
5°	928	922	926	925	926	88
15°	882	879	887	891	895	249
25°	796	795	809	819	825	366
35°	678	683	701	719	730	424
45°	541	549	574	603	615	417
55°	396	404	432	464	474	354
65°	244	254	276	286	286	243
75°	100	107	106	91	83	108
85°	10	9	7	6	5	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	930	930	930	930	930
2.5°	933	926	930	929	926
5°	928	922	926	925	926
7.5°	922	916	921	921	922
10°	911	906	911	912	914
12.5°	899	894	900	903	906
15°	882	879	887	891	895
17.5°	864	861	871	876	880
20°	843	841	852	858	863
22.5°	821	820	832	839	845
25°	796	795	809	819	825
27.5°	769	770	784	795	802
30°	740	741	757	771	779
32.5°	709	713	730	746	755
35°	678	683	701	719	730
37.5°	645	651	672	692	704
40°	611	618	640	663	675
42.5°	576	584	606	633	645
45°	541	549	574	603	615
47.5°	506	514	540	570	584
50°	470	478	505	536	548
52.5°	433	442	469	501	514
55°	396	404	432	464	474
57.5°	358	367	396	424	434
60°	321	331	358	382	389
62.5°	285	293	317	336	338
65°	244	254	276	286	286
67.5°	208	216	234	236	234
70°	170	178	189	186	180
72.5°	135	142	147	137	129
75°	100	107	106	91	83
77.5°	70	75	68	52	46
80°	44	46	37	24	21
82.5°	24	25	15	12	12
85°	10	9	7	6	5
87.5°	3	3	2	2	2
90°	0	0	0	0	0

(END OF REPORT)