

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: P489827

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-3HI-20-120-EDD**

Issue Date: 3/11/2021

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P489827
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P387254)
Test Lab: INNOVATION CENTER
Issue Date: 3/11/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: CLM-24-4-INS-P12125-LD4-3HI-20-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

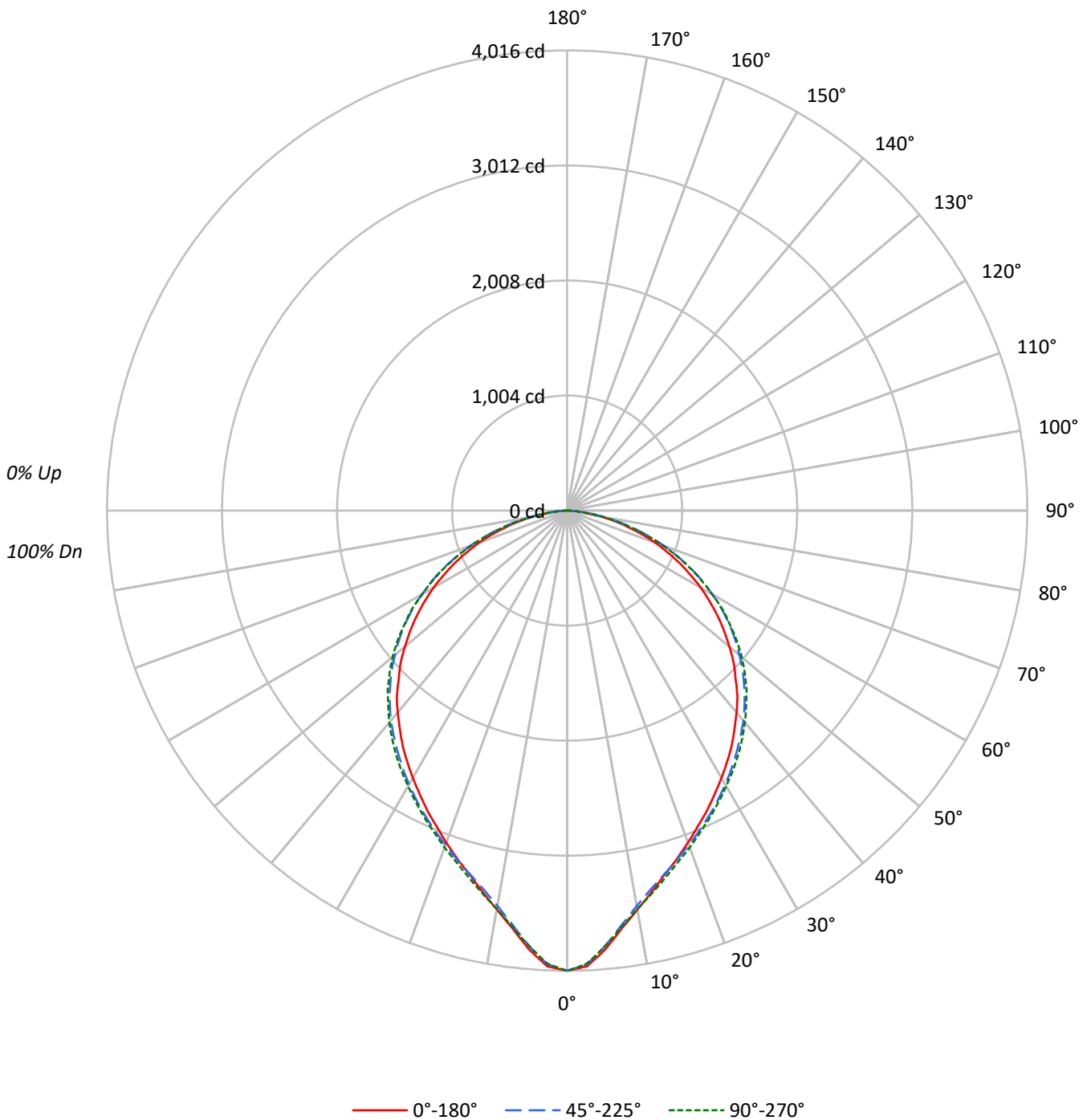
Lumens per Lamp: N/A
Luminaire Lumens: 9327.8 lumens
Efficiency: N/A
Efficacy: 72.0 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 129.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
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				10	0
RW	70	50	30	10	70	50	30	10	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	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5403	5403	5403
5°	5188	5151	5151
10°	4828	4785	4822
15°	4582	4573	4618
20°	4414	4445	4480
25°	4287	4357	4383
30°	4184	4287	4314
35°	4112	4232	4275
40°	4040	4203	4239
45°	3956	4162	4212
50°	3869	4110	4165
55°	3761	4051	4068
60°	3626	3940	3932
65°	3437	3789	3763
70°	3209	3533	3490
75°	2833	3130	3098
80°	2301	2551	2425
85°	1596	1626	1564



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	354.8	3.8
10°-20°	929.5	10.0
20°-30°	1351.6	14.5
30°-40°	1608.4	17.2
40°-50°	1670.1	17.9
50°-60°	1513.0	16.2
60°-70°	1141.7	12.2
70°-80°	622.1	6.7
80°-90°	136.7	1.5
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°	2635.9	28.3
0°-40°	4244.3	45.5
0°-60°	7427.3	79.6
0°-90°	9327.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9327.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4016	4016	4016	4016	4016	
5°	3841	3832	3814	3812	3814	356
15°	3289	3281	3283	3305	3315	928
25°	2888	2912	2935	2959	2952	1331
35°	2504	2534	2577	2616	2603	1565
45°	2079	2116	2188	2212	2214	1607
55°	1604	1642	1727	1739	1734	1432
65°	1080	1111	1190	1188	1182	1067
75°	545	567	602	606	596	580
85°	103	104	105	104	101	130
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4015.8	4015.8	4015.8	4015.8	4015.8
2.5°	3980.6	3976.6	3963.6	3958.5	3957.5
5°	3841.2	3832.1	3814.0	3812.1	3814.0
7.5°	3674.6	3664.5	3646.5	3653.5	3662.6
10°	3534.1	3509.0	3502.0	3512.0	3529.1
12.5°	3408.6	3388.6	3382.5	3408.6	3420.7
15°	3289.2	3281.2	3283.3	3305.3	3315.3
17.5°	3185.9	3180.9	3194.0	3211.0	3216.0
20°	3082.6	3092.6	3104.6	3122.7	3128.7
22.5°	2981.2	3000.2	3020.4	3044.4	3036.4
25°	2887.9	2912.0	2935.1	2959.1	2952.1
27.5°	2788.5	2816.6	2848.8	2874.9	2864.8
30°	2693.2	2728.3	2759.5	2791.5	2776.5
32.5°	2598.9	2632.0	2669.1	2708.3	2691.2
35°	2503.6	2533.7	2576.8	2616.0	2602.9
37.5°	2398.2	2435.3	2484.5	2518.6	2509.6
40°	2299.9	2334.0	2393.2	2415.3	2413.2
42.5°	2200.5	2228.7	2290.8	2315.9	2311.9
45°	2079.1	2116.3	2187.5	2211.6	2213.6
47.5°	1971.8	2002.9	2079.1	2098.2	2102.2
50°	1848.3	1887.5	1963.7	1986.8	1989.8
52.5°	1726.9	1769.0	1847.3	1863.4	1866.4
55°	1603.5	1641.6	1726.9	1739.0	1734.0
57.5°	1474.1	1520.2	1598.5	1604.5	1609.5
60°	1347.6	1387.7	1464.0	1472.0	1461.0
62.5°	1210.2	1251.3	1329.6	1331.5	1322.5
65°	1079.7	1110.8	1190.0	1188.1	1182.0
67.5°	943.2	981.3	1039.6	1041.5	1036.6
70°	815.8	841.9	898.1	899.1	887.1
72.5°	678.3	706.4	751.5	745.6	742.6
75°	544.9	567.0	602.1	606.1	596.0
77.5°	422.5	438.5	464.6	461.6	450.5
80°	297.0	310.0	329.2	325.1	313.0
82.5°	189.6	197.7	209.7	204.7	199.7
85°	103.4	104.3	105.3	104.3	101.3
87.5°	38.1	39.2	39.2	38.1	35.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)