

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: P489829

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-3HI-27-120-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: P489829
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-27-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

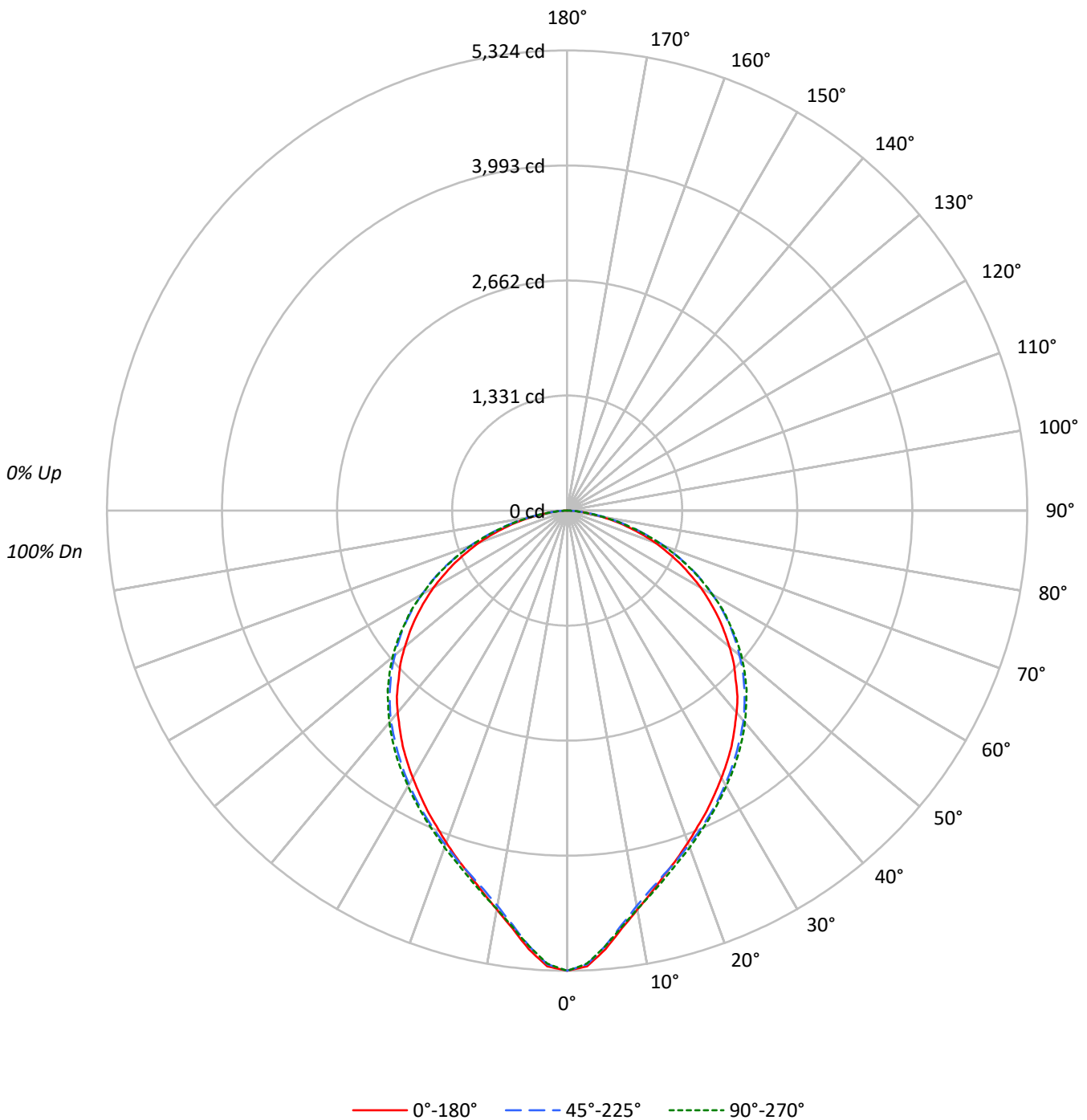
Lumens per Lamp: N/A
Luminaire Lumens: 12366.3 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	7163	7163	7163
5°	6878	6829	6829
10°	6401	6343	6392
15°	6074	6063	6122
20°	5852	5893	5939
25°	5684	5777	5810
30°	5547	5684	5719
35°	5452	5611	5668
40°	5355	5573	5619
45°	5245	5518	5584
50°	5129	5449	5522
55°	4987	5370	5393
60°	4807	5223	5212
65°	4557	5023	4989
70°	4255	4684	4626
75°	3755	4149	4108
80°	3051	3381	3216
85°	2117	2157	2073



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	470.4	3.8
10°-20°	1232.2	10.0
20°-30°	1791.9	14.5
30°-40°	2132.3	17.2
40°-50°	2214.1	17.9
50°-60°	2005.8	16.2
60°-70°	1513.6	12.2
70°-80°	824.7	6.7
80°-90°	181.2	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°	3494.6	28.3
0°-40°	5626.9	45.5
0°-60°	9846.8	79.6
0°-90°	12366.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12366.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5324	5324	5324	5324	5324	
5°	5092	5080	5056	5054	5056	473
15°	4361	4350	4353	4382	4395	1231
25°	3829	3860	3891	3923	3914	1764
35°	3319	3359	3416	3468	3451	2075
45°	2756	2806	2900	2932	2935	2131
55°	2126	2176	2289	2306	2299	1898
65°	1431	1473	1578	1575	1567	1415
75°	722	752	798	804	790	769
85°	137	138	140	138	134	173
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5323.9	5323.9	5323.9	5323.9	5323.9
2.5°	5277.3	5272.0	5254.7	5248.0	5246.7
5°	5092.4	5080.4	5056.5	5053.9	5056.5
7.5°	4871.6	4858.2	4834.4	4843.6	4855.6
10°	4685.3	4652.1	4642.7	4656.0	4678.7
12.5°	4519.0	4492.4	4484.4	4519.0	4535.0
15°	4360.7	4350.0	4352.8	4382.1	4395.3
17.5°	4223.7	4217.1	4234.4	4257.0	4263.7
20°	4086.7	4100.0	4116.0	4139.9	4147.9
22.5°	3952.3	3977.6	4004.3	4036.1	4025.5
25°	3828.6	3860.5	3891.2	3923.1	3913.8
27.5°	3696.9	3734.1	3776.7	3811.3	3798.0
30°	3570.5	3617.1	3658.3	3700.9	3681.0
32.5°	3445.5	3489.4	3538.6	3590.5	3567.9
35°	3319.1	3359.0	3416.2	3468.1	3450.8
37.5°	3179.5	3228.6	3293.8	3339.0	3327.1
40°	3049.1	3094.3	3172.8	3202.1	3199.4
42.5°	2917.3	2954.7	3037.1	3070.3	3065.0
45°	2756.4	2805.6	2900.0	2932.0	2934.6
47.5°	2614.1	2655.3	2756.4	2781.6	2787.0
50°	2450.4	2502.3	2603.4	2634.0	2638.0
52.5°	2289.4	2345.3	2449.1	2470.3	2474.4
55°	2125.8	2176.3	2289.4	2305.5	2298.8
57.5°	1954.2	2015.4	2119.2	2127.1	2133.8
60°	1786.5	1839.8	1940.9	1951.5	1936.9
62.5°	1604.4	1658.9	1762.7	1765.3	1753.3
65°	1431.4	1472.6	1577.7	1575.1	1567.1
67.5°	1250.4	1301.0	1378.2	1380.8	1374.3
70°	1081.5	1116.1	1190.6	1192.0	1176.0
72.5°	899.3	936.5	996.3	988.4	984.5
75°	722.4	751.6	798.2	803.5	790.2
77.5°	560.1	581.3	615.9	612.0	597.3
80°	393.7	411.0	436.4	431.1	415.0
82.5°	251.4	262.1	278.1	271.4	264.7
85°	137.1	138.3	139.7	138.3	134.3
87.5°	50.5	51.9	51.9	50.5	46.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)