

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: P489863

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-4HI-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: P489863
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-LD4-4HI-20-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

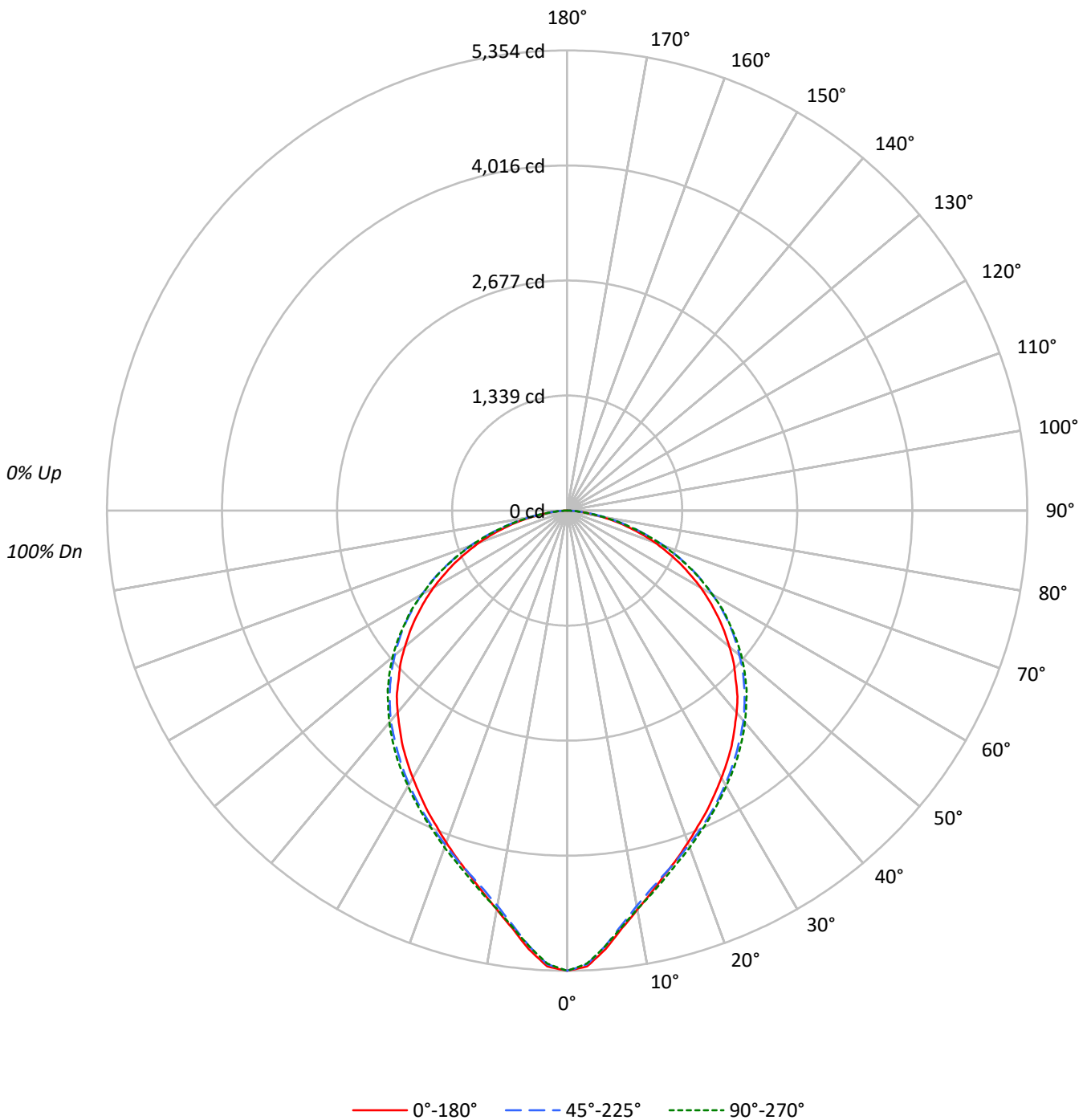
Lumens per Lamp: N/A
Luminaire Lumens: 12437.1 lumens
Efficiency: N/A
Efficacy: 72.0 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 172.8
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	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					100			
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84					84			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70					70			
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59					59			
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51					51			
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44					44			
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38					38			
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34					34			
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30					30			
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27					27			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7204	7204	7204
5°	6917	6868	6868
10°	6438	6379	6429
15°	6109	6098	6157
20°	5885	5927	5973
25°	5717	5810	5844
30°	5579	5716	5752
35°	5483	5643	5701
40°	5386	5605	5652
45°	5275	5550	5616
50°	5159	5481	5553
55°	5015	5401	5423
60°	4835	5253	5242
65°	4583	5052	5018
70°	4279	4711	4653
75°	3777	4173	4131
80°	3068	3401	3234
85°	2127	2169	2086



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	473.1	3.8
10°-20°	1239.3	10.0
20°-30°	1802.2	14.5
30°-40°	2144.5	17.2
40°-50°	2226.8	17.9
50°-60°	2017.3	16.2
60°-70°	1522.3	12.2
70°-80°	829.4	6.7
80°-90°	182.3	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°	3514.6	28.3
0°-40°	5659.1	45.5
0°-60°	9903.2	79.6
0°-90°	12437.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12437.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5354	5354	5354	5354	5354	
5°	5122	5110	5085	5083	5085	475
15°	4386	4375	4378	4407	4420	1238
25°	3851	3883	3914	3946	3936	1774
35°	3338	3378	3436	3488	3471	2087
45°	2772	2822	2917	2949	2951	2143
55°	2138	2189	2302	2319	2312	1909
65°	1440	1481	1587	1584	1576	1423
75°	726	756	803	808	795	774
85°	138	139	140	139	135	174
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5354.4	5354.4	5354.4	5354.4	5354.4
2.5°	5307.5	5302.2	5284.8	5278.1	5276.7
5°	5121.6	5109.5	5085.4	5082.8	5085.4
7.5°	4899.5	4886.0	4862.0	4871.4	4883.4
10°	4712.2	4678.7	4669.3	4682.7	4705.4
12.5°	4544.9	4518.1	4510.1	4544.9	4561.0
15°	4385.6	4375.0	4377.7	4407.1	4420.4
17.5°	4247.9	4241.2	4258.6	4281.4	4288.1
20°	4110.1	4123.5	4139.5	4163.7	4171.6
22.5°	3975.0	4000.3	4027.2	4059.2	4048.6
25°	3850.6	3882.6	3913.5	3945.5	3936.2
27.5°	3718.1	3755.5	3798.4	3833.2	3819.7
30°	3590.9	3637.8	3679.3	3722.0	3702.0
32.5°	3465.3	3509.4	3558.9	3611.1	3588.3
35°	3338.1	3378.3	3435.8	3488.0	3470.6
37.5°	3197.7	3247.1	3312.6	3358.1	3346.2
40°	3066.5	3112.0	3190.9	3220.4	3217.7
42.5°	2934.0	2971.6	3054.5	3087.9	3082.6
45°	2772.2	2821.7	2916.6	2948.8	2951.4
47.5°	2629.0	2670.5	2772.2	2797.6	2802.9
50°	2464.5	2516.7	2618.3	2649.0	2653.1
52.5°	2302.5	2358.7	2463.1	2484.5	2488.6
55°	2137.9	2188.8	2302.5	2318.7	2312.0
57.5°	1965.4	2027.0	2131.4	2139.3	2146.0
60°	1796.8	1850.3	1952.0	1962.7	1948.0
62.5°	1613.6	1668.4	1772.8	1775.4	1763.3
65°	1439.6	1481.1	1586.7	1584.1	1576.0
67.5°	1257.6	1308.4	1386.1	1388.7	1382.1
70°	1087.7	1122.5	1197.4	1198.8	1182.8
72.5°	904.5	941.9	1002.0	994.1	990.1
75°	726.5	755.9	802.8	808.1	794.7
77.5°	563.3	584.7	619.5	615.5	600.7
80°	396.0	413.4	438.9	433.5	417.4
82.5°	252.8	263.6	279.7	272.9	266.2
85°	137.8	139.1	140.5	139.1	135.1
87.5°	50.8	52.2	52.2	50.8	46.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)