

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: P489837

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-3HI-50-120-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: P489837
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-50-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

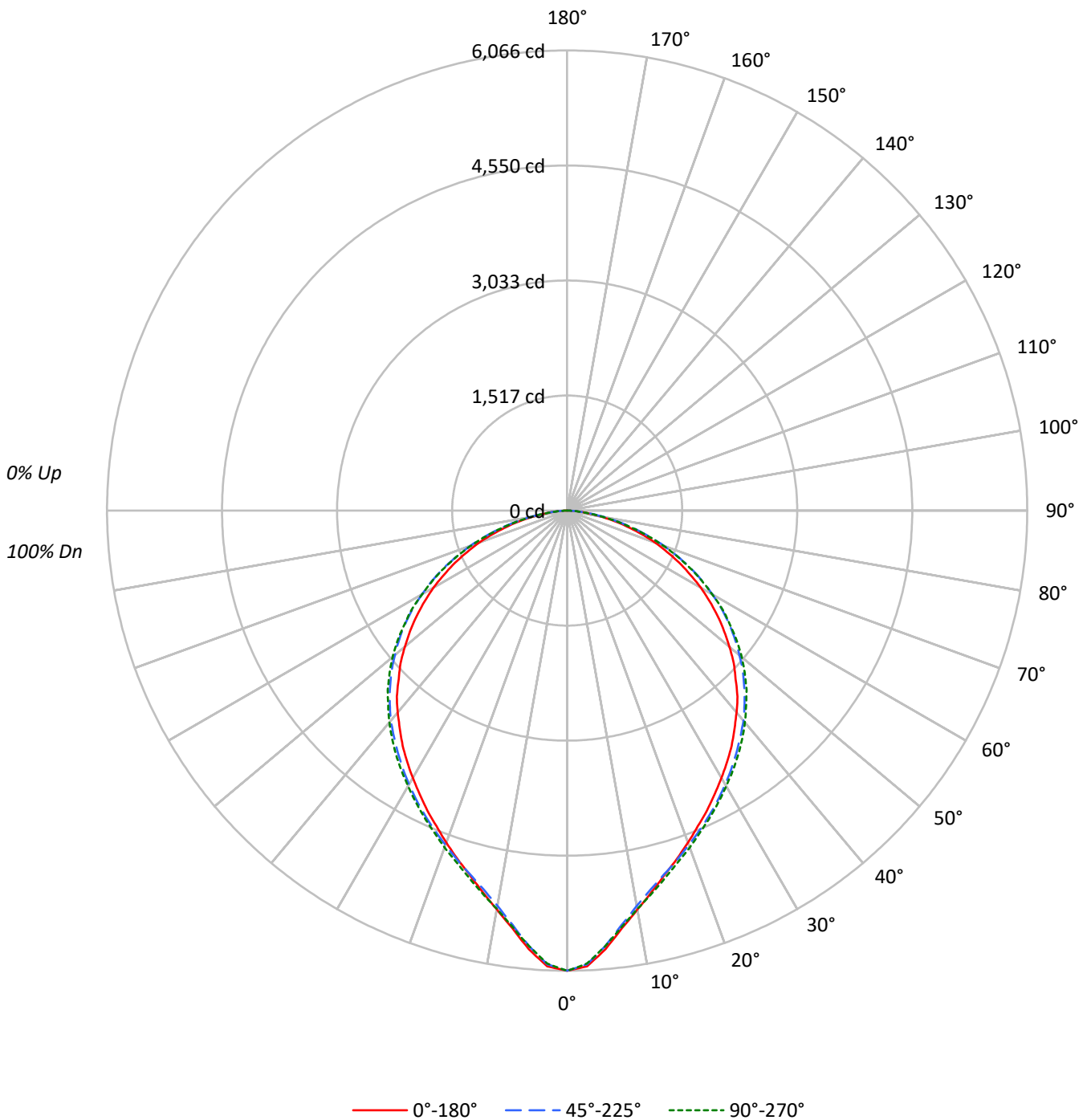
Lumens per Lamp: N/A
Luminaire Lumens: 14089.6 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P489837

CATALOG NUMBER: CLM-24-4-INS-P12125-LD4-3HI-50-120-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P489837

CATALOG NUMBER: CLM-24-4-INS-P12125-LD4-3HI-50-120-EDD

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°	8161	8161	8161
5°	7836	7781	7781
10°	7293	7227	7283
15°	6921	6908	6976
20°	6667	6715	6767
25°	6476	6582	6620
30°	6320	6476	6516
35°	6211	6393	6458
40°	6102	6349	6402
45°	5976	6287	6362
50°	5844	6209	6291
55°	5682	6119	6144
60°	5477	5951	5939
65°	5192	5723	5684
70°	4847	5336	5271
75°	4278	4728	4680
80°	3476	3852	3663
85°	2411	2456	2364



TEST NUMBER: P489837

CATALOG NUMBER: CLM-24-4-INS-P12125-LD4-3HI-50-120-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	536.0	3.8
10°-20°	1404.0	10.0
20°-30°	2041.6	14.5
30°-40°	2429.4	17.2
40°-50°	2522.6	17.9
50°-60°	2285.4	16.2
60°-70°	1724.5	12.2
70°-80°	939.6	6.7
80°-90°	206.5	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
<hr/>		
0°-30°	3981.5	28.3
0°-40°	6411.0	45.5
0°-60°	11219.0	79.6
0°-90°	14089.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14089.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6066	6066	6066	6066	6066	
5°	5802	5788	5761	5758	5761	538
15°	4968	4956	4959	4993	5008	1402
25°	4362	4398	4433	4470	4459	2010
35°	3782	3827	3892	3951	3932	2364
45°	3140	3197	3304	3341	3344	2428
55°	2422	2480	2608	2627	2619	2163
65°	1631	1678	1798	1795	1785	1612
75°	823	856	910	916	900	877
85°	156	158	159	158	153	197
90°	0	0	0	0	0	



TEST NUMBER: P489837

CATALOG NUMBER: CLM-24-4-INS-P12125-LD4-3HI-50-120-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6065.8	6065.8	6065.8	6065.8	6065.8
2.5°	6012.7	6006.7	5986.9	5979.3	5977.8
5°	5802.1	5788.4	5761.1	5758.1	5761.1
7.5°	5550.4	5535.2	5508.1	5518.6	5532.3
10°	5338.3	5300.4	5289.7	5304.9	5330.7
12.5°	5148.7	5118.5	5109.3	5148.7	5167.0
15°	4968.4	4956.2	4959.3	4992.7	5007.8
17.5°	4812.3	4804.7	4824.4	4850.2	4857.8
20°	4656.2	4671.4	4689.6	4716.9	4725.9
22.5°	4503.1	4531.9	4562.3	4598.6	4586.5
25°	4362.2	4398.5	4433.4	4469.8	4459.2
27.5°	4212.1	4254.5	4303.0	4342.5	4327.3
30°	4068.0	4121.1	4168.1	4216.6	4193.9
32.5°	3925.7	3975.7	4031.7	4090.8	4065.1
35°	3781.6	3827.1	3892.3	3951.4	3931.7
37.5°	3622.5	3678.6	3752.8	3804.3	3790.8
40°	3474.0	3525.5	3614.9	3648.3	3645.2
42.5°	3323.9	3366.4	3460.3	3498.2	3492.1
45°	3140.5	3196.6	3304.2	3340.6	3343.6
47.5°	2978.3	3025.4	3140.5	3169.3	3175.3
50°	2791.9	2851.0	2966.2	3001.0	3005.6
52.5°	2608.4	2672.1	2790.4	2814.6	2819.2
55°	2422.0	2479.6	2608.4	2626.7	2619.1
57.5°	2226.6	2296.3	2414.5	2423.6	2431.2
60°	2035.5	2096.2	2211.4	2223.5	2206.9
62.5°	1827.9	1890.0	2008.3	2011.3	1997.6
65°	1630.8	1677.9	1797.5	1794.6	1785.4
67.5°	1424.7	1482.3	1570.3	1573.2	1565.8
70°	1232.2	1271.6	1356.5	1358.1	1339.9
72.5°	1024.6	1067.0	1135.2	1126.2	1121.7
75°	823.0	856.4	909.5	915.5	900.3
77.5°	638.1	662.4	701.8	697.3	680.5
80°	448.6	468.3	497.2	491.1	472.8
82.5°	286.4	298.6	316.8	309.2	301.6
85°	156.2	157.6	159.1	157.6	153.1
87.5°	57.6	59.1	59.1	57.6	53.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)