

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: P489393

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-5STD-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: P489393
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-24-2-INS-P12125-LD4-5STD-50-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

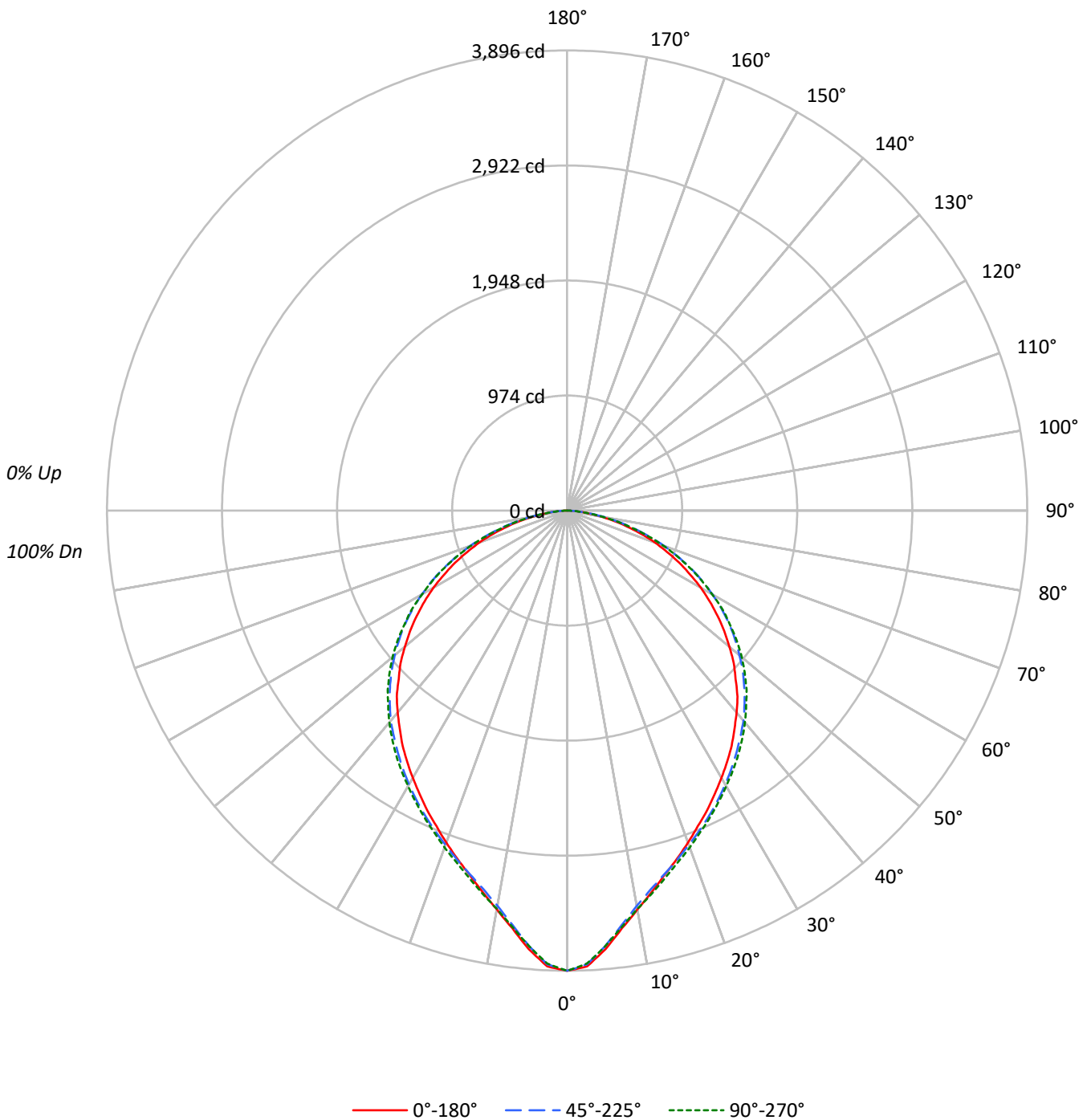
Lumens per Lamp: N/A
Luminaire Lumens: 9050.3 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 83.2
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: P489393

CATALOG NUMBER: CLM-24-2-INS-P12125-LD4-5STD-50-120-EDD

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°	10485	10485	10485
5°	10067	9996	9996
10°	9370	9284	9356
15°	8891	8875	8961
20°	8565	8626	8693
25°	8320	8456	8505
30°	8120	8319	8371
35°	7980	8213	8296
40°	7839	8157	8225
45°	7677	8077	8173
50°	7508	7976	8082
55°	7299	7861	7893
60°	7037	7645	7629
65°	6670	7352	7303
70°	6227	6856	6772
75°	5497	6074	6013
80°	4466	4950	4706
85°	3097	3155	3035



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.3	3.8
10°-20°	901.8	10.0
20°-30°	1311.4	14.5
30°-40°	1560.5	17.2
40°-50°	1620.4	17.9
50°-60°	1468.0	16.2
60°-70°	1107.7	12.2
70°-80°	603.6	6.7
80°-90°	132.6	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°	2557.5	28.3
0°-40°	4118.0	45.5
0°-60°	7206.4	79.6
0°-90°	9050.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9050.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3896	3896	3896	3896	3896	
5°	3727	3718	3701	3699	3701	346
15°	3191	3184	3186	3207	3217	901
25°	2802	2825	2848	2871	2864	1291
35°	2429	2458	2500	2538	2526	1519
45°	2017	2053	2122	2146	2148	1559
55°	1556	1593	1676	1687	1682	1389
65°	1048	1078	1155	1153	1147	1036
75°	529	550	584	588	578	563
85°	100	101	102	101	98	127
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3896.3	3896.3	3896.3	3896.3	3896.3
2.5°	3862.2	3858.3	3845.7	3840.8	3839.8
5°	3726.9	3718.1	3700.6	3698.7	3700.6
7.5°	3565.3	3555.5	3538.0	3544.8	3553.6
10°	3429.0	3404.6	3397.8	3407.5	3424.1
12.5°	3307.2	3287.8	3281.9	3307.2	3319.0
15°	3191.4	3183.6	3185.6	3207.0	3216.7
17.5°	3091.2	3086.3	3098.9	3115.5	3120.4
20°	2990.9	3000.6	3012.3	3029.8	3035.6
22.5°	2892.5	2911.0	2930.5	2953.9	2946.1
25°	2802.0	2825.3	2847.8	2871.1	2864.3
27.5°	2705.6	2732.8	2764.0	2789.3	2779.6
30°	2613.1	2647.2	2677.4	2708.5	2693.9
32.5°	2521.6	2553.7	2589.7	2627.7	2611.2
35°	2429.1	2458.3	2500.2	2538.2	2525.5
37.5°	2326.9	2362.9	2410.6	2443.7	2435.0
40°	2231.5	2264.6	2322.0	2343.4	2341.5
42.5°	2135.1	2162.4	2222.7	2247.0	2243.1
45°	2017.3	2053.3	2122.4	2145.8	2147.7
47.5°	1913.1	1943.3	2017.3	2035.7	2039.6
50°	1793.4	1831.3	1905.3	1927.7	1930.6
52.5°	1675.5	1716.4	1792.4	1807.9	1810.9
55°	1555.8	1592.7	1675.5	1687.3	1682.4
57.5°	1430.2	1475.0	1551.0	1556.7	1561.6
60°	1307.5	1346.5	1420.4	1428.2	1417.6
62.5°	1174.2	1214.1	1290.0	1291.9	1283.2
65°	1047.5	1077.7	1154.6	1152.7	1146.9
67.5°	915.1	952.1	1008.6	1010.5	1005.7
70°	791.5	816.8	871.4	872.3	860.7
72.5°	658.2	685.4	729.2	723.4	720.5
75°	528.7	550.1	584.2	588.1	578.3
77.5°	409.9	425.5	450.8	447.9	437.1
80°	288.2	300.8	319.4	315.5	303.7
82.5°	184.0	191.8	203.5	198.6	193.7
85°	100.3	101.2	102.2	101.2	98.3
87.5°	37.0	38.0	38.0	37.0	34.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)