

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: P489329

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-4HI-35-120-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: P489329
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-LD4-4HI-35-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

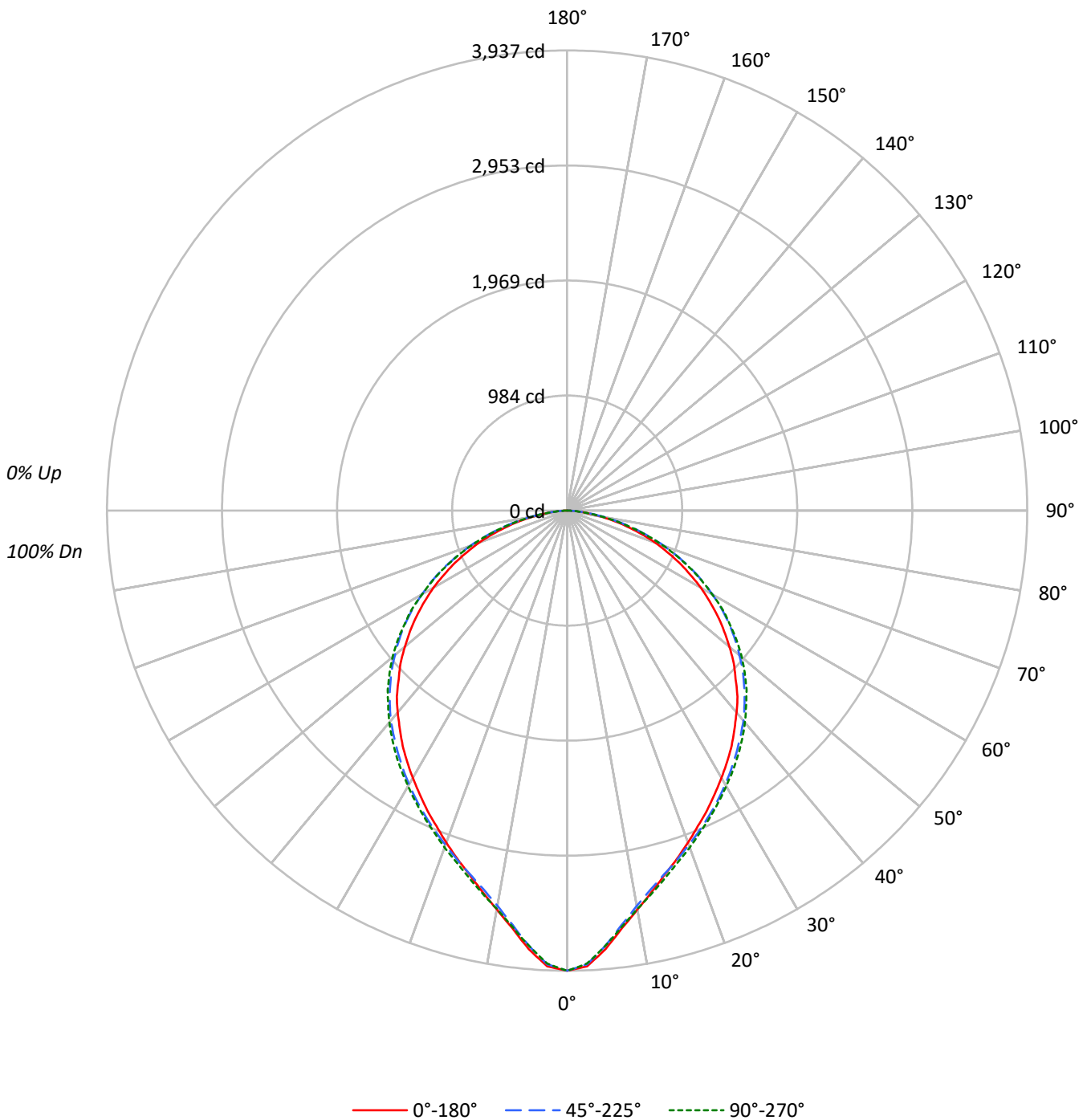
Lumens per Lamp: N/A
Luminaire Lumens: 9144.6 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 86.4
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°	10594	10594	10594
5°	10172	10100	10100
10°	9467	9381	9454
15°	8983	8967	9055
20°	8654	8716	8784
25°	8406	8543	8593
30°	8204	8406	8458
35°	8063	8299	8383
40°	7920	8242	8311
45°	7757	8161	8259
50°	7586	8060	8167
55°	7375	7943	7975
60°	7110	7724	7709
65°	6740	7429	7379
70°	6292	6927	6842
75°	5554	6137	6075
80°	4513	5001	4756
85°	3128	3189	3066



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.9	3.8
10°-20°	911.2	10.0
20°-30°	1325.1	14.5
30°-40°	1576.8	17.2
40°-50°	1637.3	17.9
50°-60°	1483.3	16.2
60°-70°	1119.3	12.2
70°-80°	609.8	6.7
80°-90°	134.0	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°	2584.2	28.3
0°-40°	4160.9	45.5
0°-60°	7281.5	79.6
0°-90°	9144.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9144.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3937	3937	3937	3937	3937	
5°	3766	3757	3739	3737	3739	349
15°	3225	3217	3219	3240	3250	910
25°	2831	2855	2877	2901	2894	1305
35°	2454	2484	2526	2565	2552	1534
45°	2038	2075	2144	2168	2170	1576
55°	1572	1609	1693	1705	1700	1404
65°	1058	1089	1167	1165	1159	1046
75°	534	556	590	594	584	569
85°	101	102	103	102	99	128
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3936.9	3936.9	3936.9	3936.9	3936.9
2.5°	3902.4	3898.5	3885.7	3880.8	3879.8
5°	3765.7	3756.9	3739.1	3737.2	3739.1
7.5°	3602.4	3592.6	3574.9	3581.8	3590.6
10°	3464.7	3440.1	3433.2	3443.0	3459.8
12.5°	3341.7	3322.0	3316.1	3341.7	3353.6
15°	3224.6	3216.8	3218.8	3240.4	3250.2
17.5°	3123.4	3118.4	3131.2	3147.9	3152.9
20°	3022.0	3031.9	3043.7	3061.4	3067.3
22.5°	2922.7	2941.3	2961.1	2984.6	2976.8
25°	2831.2	2854.8	2877.4	2901.0	2894.2
27.5°	2733.8	2761.3	2792.8	2818.4	2808.5
30°	2640.3	2674.7	2705.3	2736.7	2722.0
32.5°	2547.9	2580.3	2616.7	2655.1	2638.4
35°	2454.4	2483.9	2526.2	2564.6	2551.8
37.5°	2351.1	2387.5	2435.7	2469.1	2460.3
40°	2254.7	2288.2	2346.2	2367.9	2365.9
42.5°	2157.3	2184.9	2245.9	2270.4	2266.5
45°	2038.3	2074.7	2144.5	2168.2	2170.1
47.5°	1933.0	1963.6	2038.3	2057.0	2060.9
50°	1812.0	1850.4	1925.2	1947.8	1950.8
52.5°	1693.0	1734.3	1811.0	1826.8	1829.8
55°	1572.0	1609.3	1693.0	1704.8	1699.9
57.5°	1445.1	1490.4	1567.1	1573.0	1577.9
60°	1321.1	1360.5	1435.2	1443.1	1432.3
62.5°	1186.4	1226.7	1303.5	1305.4	1296.5
65°	1058.5	1089.0	1166.7	1164.7	1158.8
67.5°	924.7	962.0	1019.2	1021.1	1016.2
70°	799.7	825.3	880.4	881.4	869.6
72.5°	665.0	692.5	736.8	730.9	728.0
75°	534.2	555.8	590.3	594.2	584.3
77.5°	414.2	429.9	455.5	452.5	441.7
80°	291.2	304.0	322.7	318.8	306.9
82.5°	185.9	193.8	205.6	200.7	195.8
85°	101.3	102.3	103.3	102.3	99.3
87.5°	37.4	38.4	38.4	37.4	34.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)