

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: P489797

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-2HI-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: P489797
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-LD4-2HI-35-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

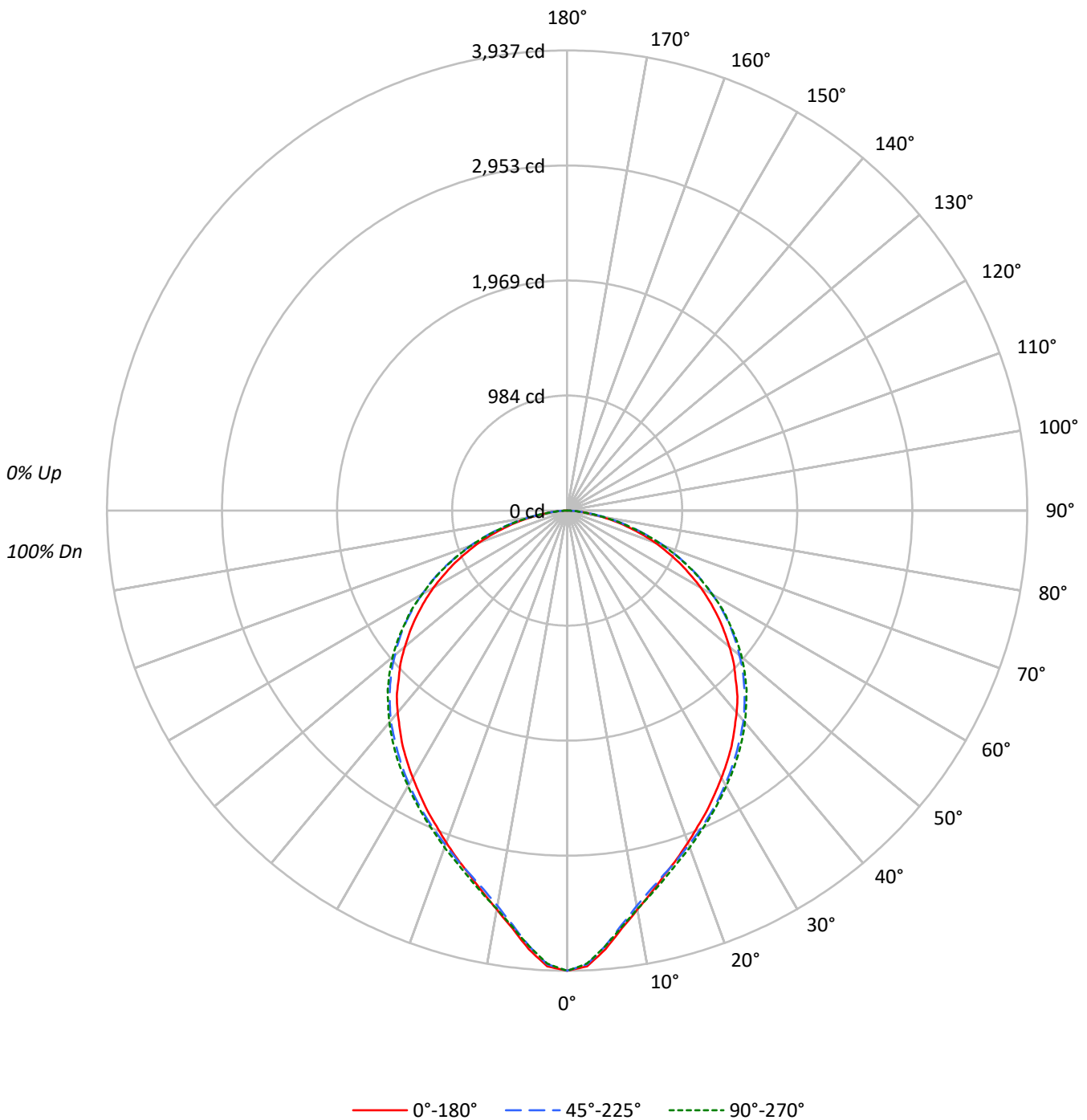
Lumens per Lamp: N/A
Luminaire Lumens: 9144.9 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	5297	5297	5297
5°	5086	5050	5050
10°	4734	4691	4727
15°	4492	4484	4528
20°	4327	4358	4392
25°	4203	4272	4297
30°	4102	4203	4229
35°	4032	4150	4192
40°	3960	4121	4155
45°	3879	4081	4129
50°	3793	4030	4083
55°	3688	3971	3988
60°	3555	3862	3855
65°	3370	3714	3689
70°	3146	3464	3421
75°	2777	3069	3038
80°	2256	2500	2378
85°	1565	1595	1533



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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°	609.9	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°	4161.1	45.5
0°-60°	7281.7	79.6
0°-90°	9144.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9144.9	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	2878	2901	2894	1305
35°	2454	2484	2526	2565	2552	1535
45°	2038	2075	2145	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°	3937.0	3937.0	3937.0	3937.0	3937.0
2.5°	3902.6	3898.6	3885.8	3880.9	3879.9
5°	3765.8	3757.0	3739.3	3737.3	3739.3
7.5°	3602.5	3592.7	3575.0	3581.9	3590.7
10°	3464.8	3440.2	3433.3	3443.2	3459.9
12.5°	3341.8	3322.1	3316.2	3341.8	3353.7
15°	3224.7	3216.9	3218.9	3240.5	3250.3
17.5°	3123.5	3118.5	3131.3	3148.0	3153.0
20°	3022.1	3032.0	3043.8	3061.5	3067.4
22.5°	2922.8	2941.4	2961.2	2984.7	2976.9
25°	2831.3	2854.9	2877.5	2901.1	2894.3
27.5°	2733.9	2761.4	2792.9	2818.5	2808.6
30°	2640.4	2674.8	2705.4	2736.8	2722.1
32.5°	2548.0	2580.4	2616.8	2655.2	2638.5
35°	2454.5	2484.0	2526.3	2564.7	2551.9
37.5°	2351.2	2387.6	2435.8	2469.2	2460.4
40°	2254.8	2288.2	2346.3	2367.9	2365.9
42.5°	2157.4	2185.0	2245.9	2270.5	2266.6
45°	2038.4	2074.8	2144.6	2168.2	2170.2
47.5°	1933.1	1963.6	2038.4	2057.0	2061.0
50°	1812.1	1850.5	1925.2	1947.8	1950.8
52.5°	1693.0	1734.3	1811.1	1826.8	1829.8
55°	1572.0	1609.4	1693.0	1704.9	1700.0
57.5°	1445.2	1490.4	1567.2	1573.0	1578.0
60°	1321.1	1360.5	1435.3	1443.2	1432.4
62.5°	1186.4	1226.7	1303.5	1305.4	1296.6
65°	1058.5	1089.0	1166.7	1164.8	1158.8
67.5°	924.7	962.1	1019.2	1021.1	1016.3
70°	799.8	825.4	880.5	881.5	869.7
72.5°	665.0	692.6	736.8	730.9	728.0
75°	534.2	555.8	590.3	594.2	584.4
77.5°	414.2	429.9	455.5	452.6	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°	101.4	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)