

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: P489825

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-2STD-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: P489825
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-LD4-2STD-50-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

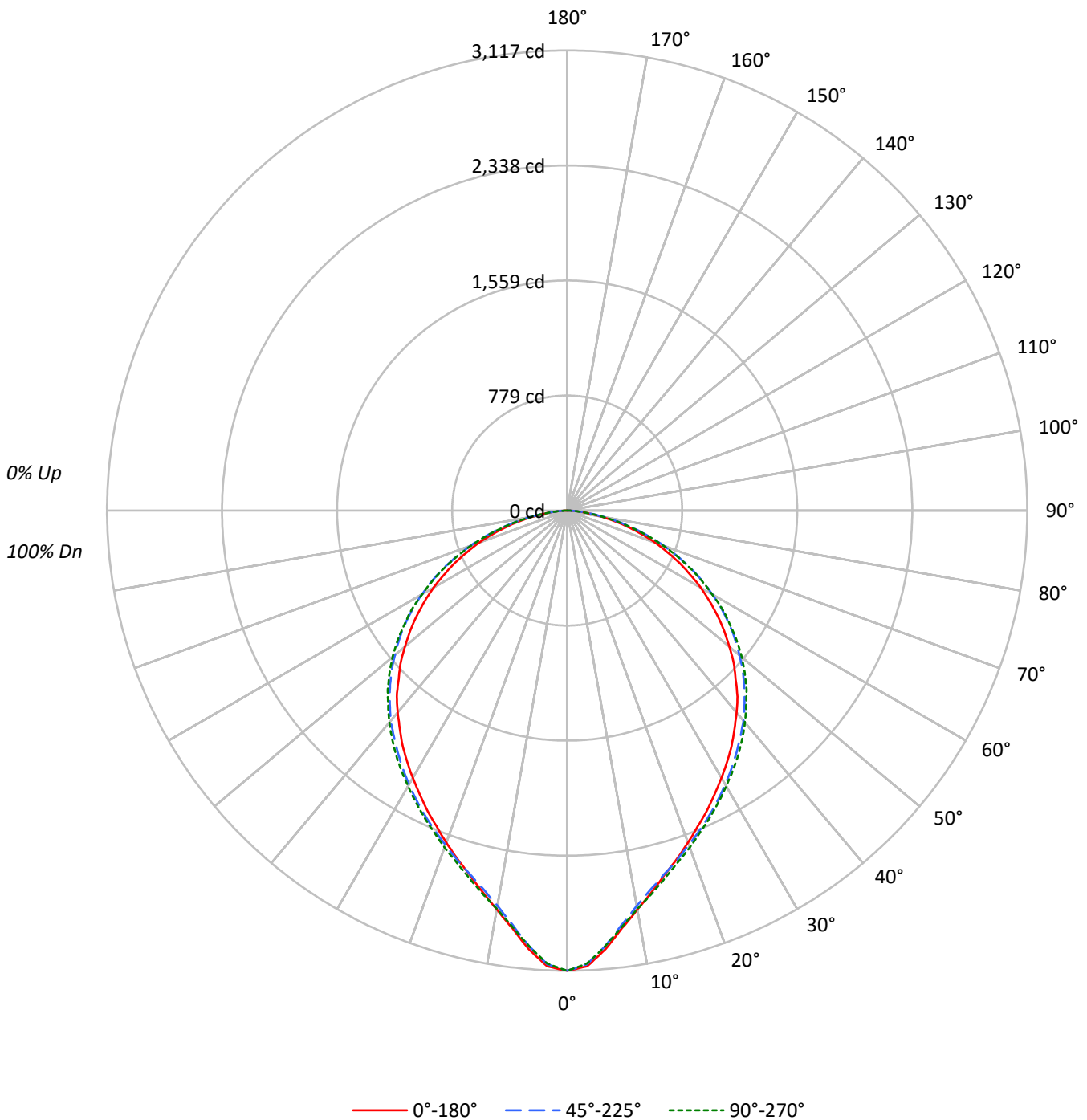
Lumens per Lamp: N/A
Luminaire Lumens: 7240.5 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
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

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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°	4194	4194	4194
5°	4027	3999	3999
10°	3748	3714	3743
15°	3556	3550	3585
20°	3426	3451	3477
25°	3328	3382	3402
30°	3248	3328	3348
35°	3192	3285	3319
40°	3136	3263	3290
45°	3071	3231	3269
50°	3003	3191	3233
55°	2920	3145	3157
60°	2815	3058	3052
65°	2668	2941	2921
70°	2491	2742	2709
75°	2198	2430	2405
80°	1786	1980	1883
85°	1238	1263	1215



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.4	3.8
10°-20°	721.5	10.0
20°-30°	1049.2	14.5
30°-40°	1248.5	17.2
40°-50°	1296.4	17.9
50°-60°	1174.4	16.2
60°-70°	886.2	12.2
70°-80°	482.9	6.7
80°-90°	106.1	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°	2046.1	28.3
0°-40°	3294.5	45.5
0°-60°	5765.3	79.6
0°-90°	7240.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7240.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3117	3117	3117	3117	3117	
5°	2982	2975	2961	2959	2961	277
15°	2553	2547	2549	2566	2573	721
25°	2242	2260	2278	2297	2292	1033
35°	1943	1967	2000	2031	2020	1215
45°	1614	1643	1698	1717	1718	1247
55°	1245	1274	1340	1350	1346	1111
65°	838	862	924	922	918	829
75°	423	440	467	470	463	451
85°	80	81	82	81	79	101
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3117.2	3117.2	3117.2	3117.2	3117.2
2.5°	3089.9	3086.8	3076.6	3072.7	3071.9
5°	2981.6	2974.6	2960.6	2959.0	2960.6
7.5°	2852.3	2844.5	2830.5	2836.0	2843.0
10°	2743.3	2723.8	2718.3	2726.1	2739.4
12.5°	2645.9	2630.3	2625.6	2645.9	2655.3
15°	2553.2	2547.0	2548.6	2565.7	2573.4
17.5°	2473.0	2469.1	2479.2	2492.5	2496.4
20°	2392.8	2400.6	2409.9	2424.0	2428.6
22.5°	2314.1	2328.9	2344.5	2363.2	2356.9
25°	2241.7	2260.3	2278.3	2297.0	2291.5
27.5°	2164.5	2186.3	2211.3	2231.5	2223.7
30°	2090.5	2117.8	2142.0	2166.9	2155.2
32.5°	2017.4	2043.1	2071.9	2102.2	2089.0
35°	1943.3	1966.7	2000.2	2030.6	2020.5
37.5°	1861.6	1890.4	1928.5	1955.0	1948.0
40°	1785.2	1811.7	1857.7	1874.8	1873.2
42.5°	1708.1	1730.0	1778.2	1797.7	1794.6
45°	1613.9	1642.7	1698.0	1716.7	1718.2
47.5°	1530.5	1554.7	1613.9	1628.7	1631.8
50°	1434.7	1465.1	1524.3	1542.2	1544.6
52.5°	1340.5	1373.2	1433.9	1446.4	1448.8
55°	1244.6	1274.2	1340.5	1349.9	1345.9
57.5°	1144.2	1180.0	1240.8	1245.4	1249.3
60°	1046.0	1077.2	1136.4	1142.6	1134.1
62.5°	939.4	971.3	1032.1	1033.6	1026.6
65°	838.1	862.2	923.7	922.2	917.5
67.5°	732.1	761.7	806.9	808.5	804.6
70°	633.2	653.5	697.1	697.9	688.6
72.5°	526.6	548.3	583.4	578.7	576.4
75°	422.9	440.1	467.4	470.5	462.7
77.5°	327.9	340.4	360.6	358.3	349.7
80°	230.5	240.7	255.5	252.4	243.0
82.5°	147.2	153.5	162.8	158.9	155.0
85°	80.2	81.0	81.8	81.0	78.7
87.5°	29.6	30.4	30.4	29.6	27.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)