

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: P489330

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-4HI-40-120-EDD-90**

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: P489330
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-40-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

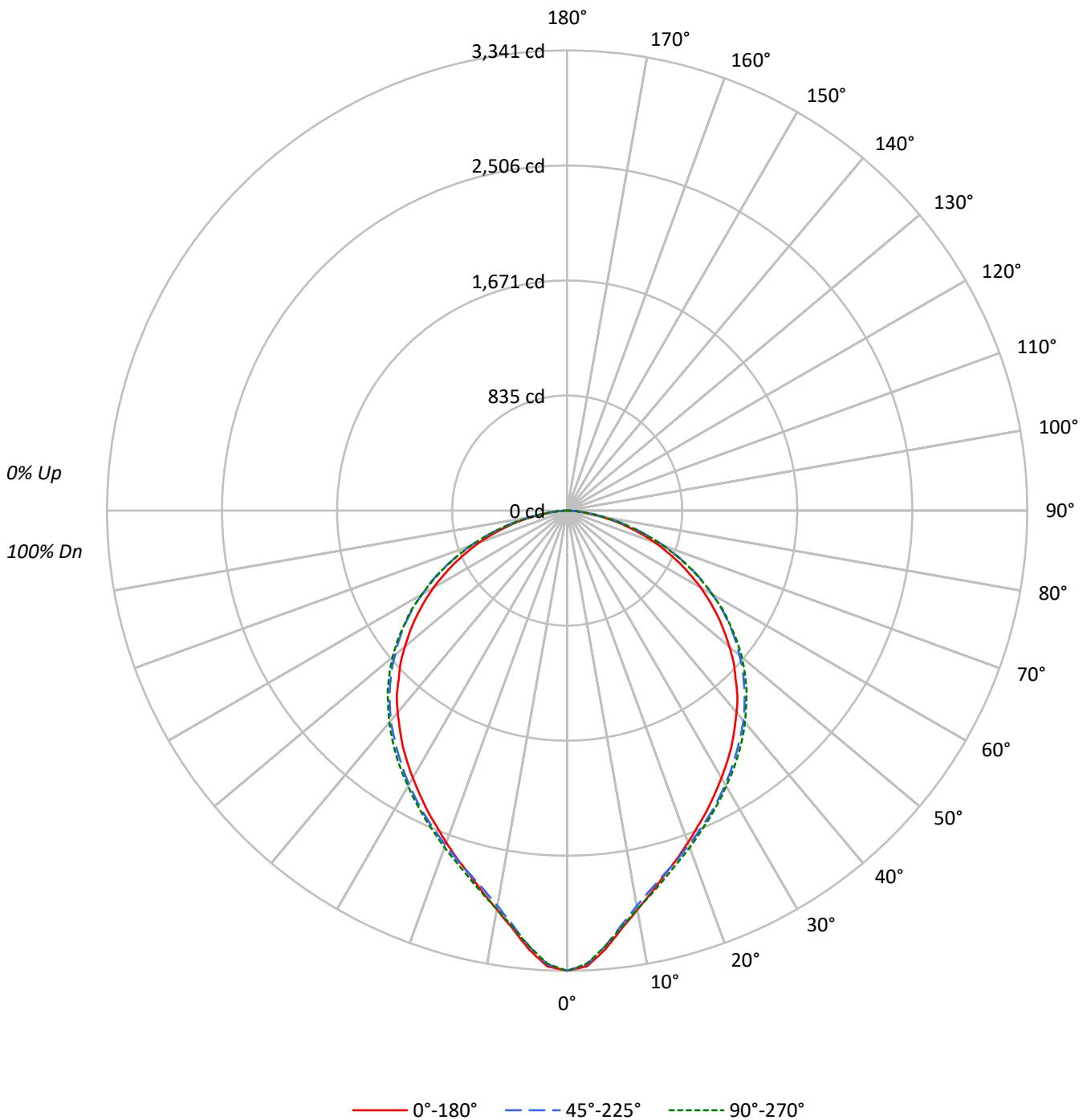
Lumens per Lamp: N/A
Luminaire Lumens: 7760.4 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	8991	8991	8991
5°	8632	8571	8571
10°	8034	7961	8023
15°	7624	7610	7684
20°	7344	7397	7454
25°	7134	7250	7293
30°	6962	7134	7178
35°	6842	7043	7114
40°	6721	6994	7053
45°	6583	6926	7008
50°	6438	6840	6931
55°	6259	6740	6768
60°	6034	6555	6542
65°	5719	6304	6262
70°	5340	5879	5807
75°	4713	5208	5156
80°	3829	4243	4035
85°	2655	2705	2603



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.2	3.8
10°-20°	773.3	10.0
20°-30°	1124.5	14.5
30°-40°	1338.1	17.2
40°-50°	1389.4	17.9
50°-60°	1258.8	16.2
60°-70°	949.8	12.2
70°-80°	517.5	6.7
80°-90°	113.7	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°	2193.0	28.3
0°-40°	3531.1	45.5
0°-60°	6179.3	79.6
0°-90°	7760.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7760.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3341	3341	3341	3341	3341	
5°	3196	3188	3173	3172	3173	297
15°	2736	2730	2732	2750	2758	772
25°	2403	2423	2442	2462	2456	1107
35°	2083	2108	2144	2176	2166	1302
45°	1730	1761	1820	1840	1842	1337
55°	1334	1366	1437	1447	1443	1191
65°	898	924	990	988	983	888
75°	453	472	501	504	496	483
85°	86	87	88	87	84	108
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3341.0	3341.0	3341.0	3341.0	3341.0
2.5°	3311.7	3308.4	3297.5	3293.4	3292.5
5°	3195.7	3188.2	3173.1	3171.5	3173.1
7.5°	3057.1	3048.8	3033.8	3039.6	3047.1
10°	2940.3	2919.4	2913.5	2921.9	2936.1
12.5°	2835.9	2819.2	2814.2	2835.9	2845.9
15°	2736.5	2729.8	2731.6	2749.9	2758.2
17.5°	2650.6	2646.4	2657.3	2671.4	2675.6
20°	2564.6	2573.0	2583.0	2598.0	2603.0
22.5°	2480.3	2496.1	2512.8	2532.9	2526.2
25°	2402.6	2422.7	2441.9	2461.9	2456.1
27.5°	2320.0	2343.3	2370.1	2391.8	2383.4
30°	2240.6	2269.9	2295.8	2322.5	2310.0
32.5°	2162.2	2189.8	2220.6	2253.2	2239.0
35°	2082.9	2107.9	2143.8	2176.4	2165.6
37.5°	1995.2	2026.1	2067.0	2095.4	2087.9
40°	1913.4	1941.8	1991.1	2009.4	2007.7
42.5°	1830.8	1854.2	1905.9	1926.8	1923.4
45°	1729.8	1760.6	1819.9	1840.0	1841.6
47.5°	1640.4	1666.3	1729.8	1745.6	1748.9
50°	1537.8	1570.3	1633.8	1652.9	1655.5
52.5°	1436.7	1471.8	1536.9	1550.2	1552.8
55°	1334.0	1365.7	1436.7	1446.8	1442.6
57.5°	1226.4	1264.8	1329.9	1334.9	1339.1
60°	1121.1	1154.6	1218.0	1224.7	1215.5
62.5°	1006.8	1041.0	1106.2	1107.8	1100.3
65°	898.2	924.1	990.1	988.4	983.4
67.5°	784.7	816.4	864.9	866.5	862.4
70°	678.7	700.4	747.2	748.0	738.0
72.5°	564.4	587.7	625.2	620.3	617.8
75°	453.3	471.7	500.9	504.3	495.9
77.5°	351.5	364.8	386.5	384.0	374.8
80°	247.1	257.9	273.8	270.5	260.4
82.5°	157.7	164.5	174.5	170.3	166.1
85°	86.0	86.8	87.6	86.8	84.3
87.5°	31.7	32.6	32.6	31.7	29.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)