

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: P489291

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-3HI-30-120-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: P489291
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-LD4-3HI-30-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

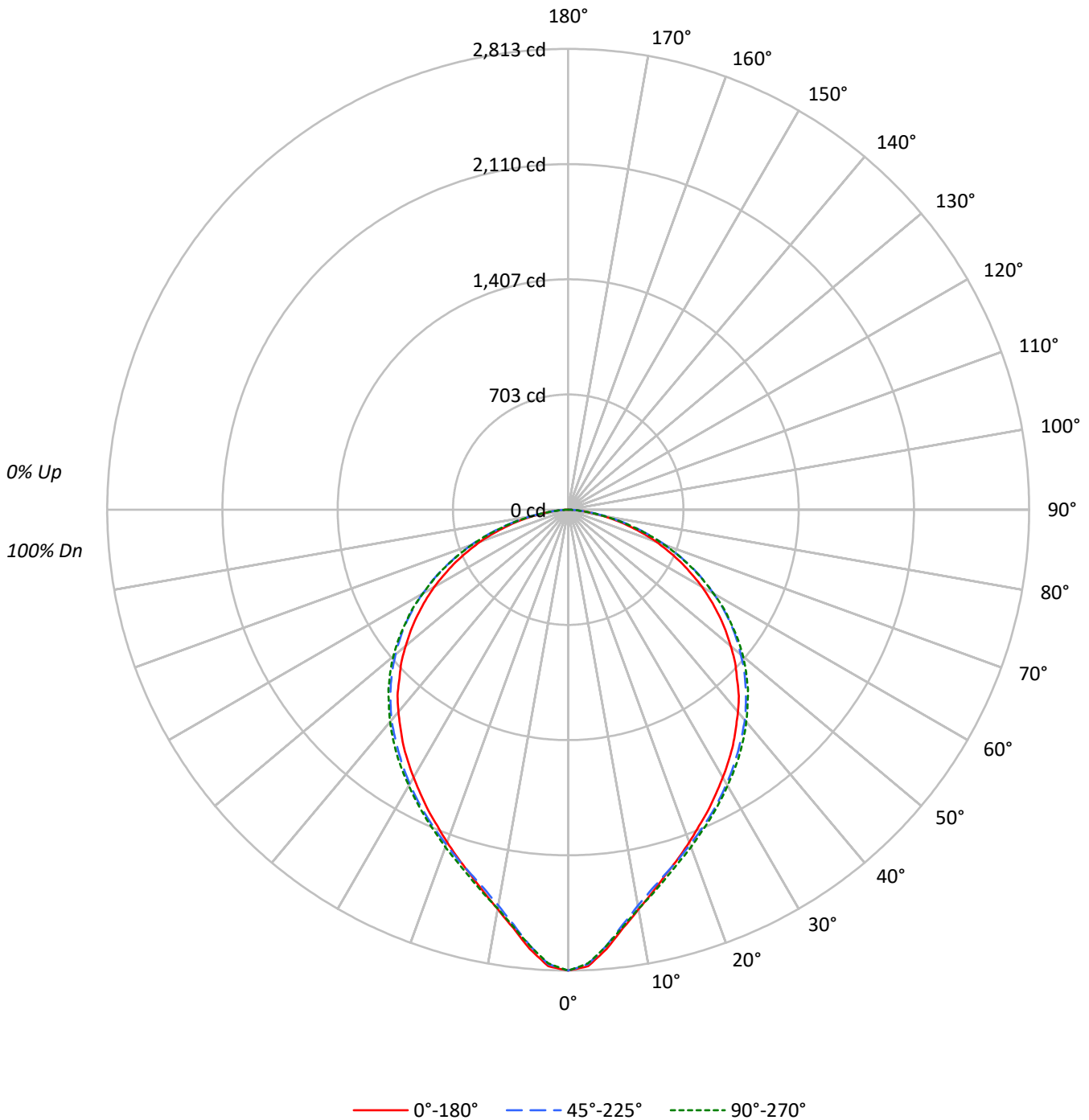
Lumens per Lamp: N/A
Luminaire Lumens: 6534.5 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 64.8
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°	7570	7570	7570
5°	7269	7217	7217
10°	6765	6704	6756
15°	6419	6408	6470
20°	6184	6228	6277
25°	6007	6105	6141
30°	5862	6007	6044
35°	5762	5930	5990
40°	5660	5889	5939
45°	5543	5832	5901
50°	5421	5759	5836
55°	5270	5675	5699
60°	5081	5520	5508
65°	4816	5308	5272
70°	4497	4950	4889
75°	3969	4386	4342
80°	3225	3574	3398
85°	2235	2279	2192



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.6	3.8
10°-20°	651.1	10.0
20°-30°	946.9	14.5
30°-40°	1126.7	17.2
40°-50°	1169.9	17.9
50°-60°	1059.9	16.2
60°-70°	799.8	12.2
70°-80°	435.8	6.7
80°-90°	95.8	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°	1846.6	28.3
0°-40°	2973.3	45.5
0°-60°	5203.2	79.6
0°-90°	6534.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6534.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2813	2813	2813	2813	2813	
5°	2691	2685	2672	2670	2672	250
15°	2304	2299	2300	2316	2322	650
25°	2023	2040	2056	2073	2068	932
35°	1754	1775	1805	1833	1824	1097
45°	1456	1482	1532	1549	1551	1126
55°	1123	1150	1210	1218	1215	1003
65°	756	778	834	832	828	748
75°	382	397	422	425	418	407
85°	72	73	74	73	71	91
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2813.2	2813.2	2813.2	2813.2	2813.2
2.5°	2788.6	2785.8	2776.6	2773.1	2772.4
5°	2690.9	2684.6	2671.9	2670.5	2671.9
7.5°	2574.2	2567.1	2554.5	2559.4	2565.8
10°	2475.8	2458.2	2453.3	2460.3	2472.3
12.5°	2387.9	2373.8	2369.6	2387.9	2396.4
15°	2304.2	2298.6	2300.1	2315.5	2322.5
17.5°	2231.9	2228.3	2237.5	2249.4	2253.0
20°	2159.5	2166.5	2174.9	2187.6	2191.8
22.5°	2088.5	2101.8	2115.9	2132.7	2127.1
25°	2023.1	2039.9	2056.1	2073.0	2068.1
27.5°	1953.5	1973.1	1995.7	2014.0	2006.9
30°	1886.7	1911.3	1933.1	1955.6	1945.1
32.5°	1820.7	1843.8	1869.8	1897.3	1885.3
35°	1753.9	1774.9	1805.2	1832.6	1823.5
37.5°	1680.1	1706.1	1740.5	1764.4	1758.1
40°	1611.2	1635.1	1676.5	1692.0	1690.6
42.5°	1541.6	1561.3	1604.8	1622.4	1619.6
45°	1456.5	1482.5	1532.4	1549.3	1550.7
47.5°	1381.3	1403.1	1456.5	1469.9	1472.7
50°	1294.8	1322.3	1375.7	1391.8	1394.0
52.5°	1209.7	1239.3	1294.1	1305.4	1307.5
55°	1123.3	1150.0	1209.7	1218.2	1214.7
57.5°	1032.6	1065.0	1119.8	1124.0	1127.5
60°	944.0	972.2	1025.6	1031.2	1023.5
62.5°	847.8	876.6	931.4	932.8	926.5
65°	756.3	778.2	833.7	832.3	828.0
67.5°	660.7	687.5	728.3	729.6	726.2
70°	571.5	589.8	629.1	629.9	621.4
72.5°	475.2	494.9	526.5	522.3	520.2
75°	381.7	397.2	421.8	424.6	417.6
77.5°	296.0	307.2	325.5	323.4	315.6
80°	208.1	217.2	230.6	227.8	219.3
82.5°	132.8	138.5	146.9	143.4	139.9
85°	72.4	73.1	73.8	73.1	71.0
87.5°	26.7	27.4	27.4	26.7	24.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)