

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: P489293

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-3HI-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: P489293
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-35-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

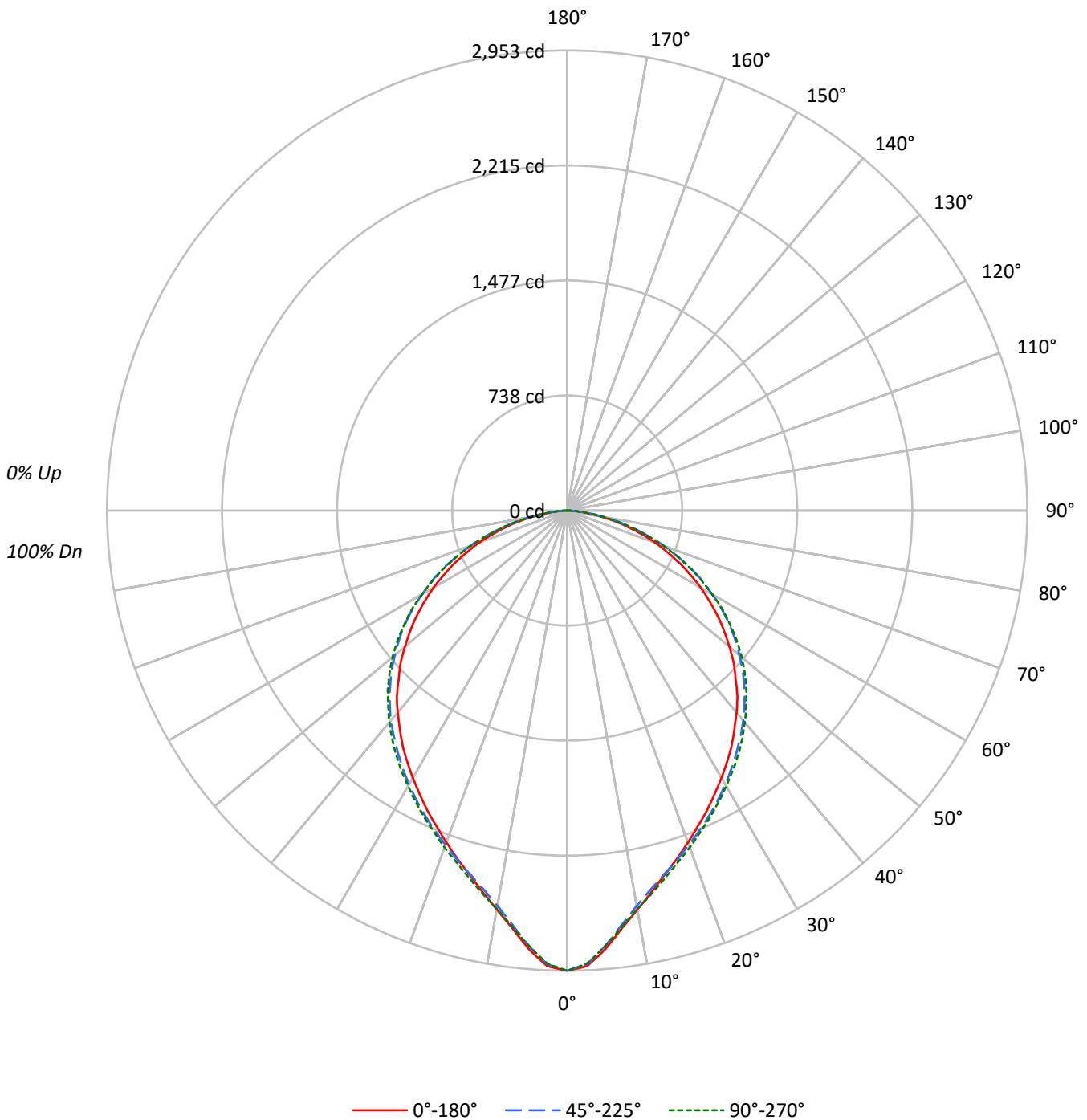
Lumens per Lamp: N/A
Luminaire Lumens: 6858.4 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P489293

CATALOG NUMBER: CLM-24-2-INS-P12125-LD4-3HI-35-120-EDD

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°	7946	7946	7946
5°	7629	7575	7575
10°	7100	7036	7090
15°	6738	6725	6791
20°	6491	6537	6588
25°	6305	6408	6445
30°	6153	6304	6344
35°	6047	6224	6287
40°	5940	6181	6233
45°	5818	6121	6194
50°	5689	6045	6125
55°	5531	5957	5981
60°	5332	5793	5781
65°	5054	5571	5534
70°	4719	5195	5131
75°	4165	4603	4556
80°	3384	3750	3567
85°	2347	2393	2300



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.9	3.8
10°-20°	683.4	10.0
20°-30°	993.8	14.5
30°-40°	1182.6	17.2
40°-50°	1227.9	17.9
50°-60°	1112.4	16.2
60°-70°	839.4	12.2
70°-80°	457.4	6.7
80°-90°	100.5	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°	1938.1	28.3
0°-40°	3120.7	45.5
0°-60°	5461.1	79.6
0°-90°	6858.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6858.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2953	2953	2953	2953	2953	
5°	2824	2818	2804	2803	2804	262
15°	2418	2413	2414	2430	2438	683
25°	2123	2141	2158	2176	2171	978
35°	1841	1863	1895	1923	1914	1151
45°	1529	1556	1608	1626	1628	1182
55°	1179	1207	1270	1279	1275	1053
65°	794	817	875	874	869	785
75°	401	417	443	446	438	427
85°	76	77	78	77	74	96
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2952.7	2952.7	2952.7	2952.7	2952.7
2.5°	2926.8	2923.9	2914.3	2910.6	2909.8
5°	2824.3	2817.6	2804.3	2802.9	2804.3
7.5°	2701.8	2694.4	2681.2	2686.3	2693.0
10°	2598.5	2580.1	2574.9	2582.3	2594.8
12.5°	2506.3	2491.5	2487.1	2506.3	2515.2
15°	2418.5	2412.6	2414.1	2430.3	2437.6
17.5°	2342.5	2338.8	2348.4	2360.9	2364.6
20°	2266.5	2273.9	2282.7	2296.0	2300.4
22.5°	2192.0	2206.0	2220.8	2238.5	2232.6
25°	2123.4	2141.1	2158.1	2175.7	2170.6
27.5°	2050.3	2071.0	2094.6	2113.8	2106.4
30°	1980.2	2006.0	2028.9	2052.5	2041.5
32.5°	1910.9	1935.2	1962.5	1991.3	1978.8
35°	1840.8	1862.9	1894.7	1923.4	1913.9
37.5°	1763.3	1790.6	1826.7	1851.8	1845.2
40°	1691.0	1716.1	1759.6	1775.9	1774.4
42.5°	1618.0	1638.7	1684.4	1702.8	1699.9
45°	1528.7	1556.0	1608.4	1626.1	1627.6
47.5°	1449.8	1472.7	1528.7	1542.7	1545.7
50°	1359.0	1387.8	1443.9	1460.8	1463.1
52.5°	1269.7	1300.7	1358.3	1370.1	1372.3
55°	1179.0	1207.0	1269.7	1278.6	1274.9
57.5°	1083.8	1117.8	1175.3	1179.7	1183.4
60°	990.8	1020.4	1076.4	1082.3	1074.2
62.5°	889.8	920.0	977.6	979.0	972.4
65°	793.8	816.7	875.0	873.5	869.1
67.5°	693.5	721.5	764.4	765.8	762.2
70°	599.8	619.0	660.3	661.1	652.2
72.5°	498.8	519.4	552.6	548.2	546.0
75°	400.6	416.9	442.7	445.6	438.2
77.5°	310.6	322.4	341.6	339.4	331.3
80°	218.4	228.0	242.0	239.1	230.2
82.5°	139.4	145.4	154.2	150.5	146.8
85°	76.0	76.7	77.5	76.7	74.5
87.5°	28.0	28.8	28.8	28.0	25.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)