

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: P489296

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-3HI-50-120-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: P489296
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-50-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

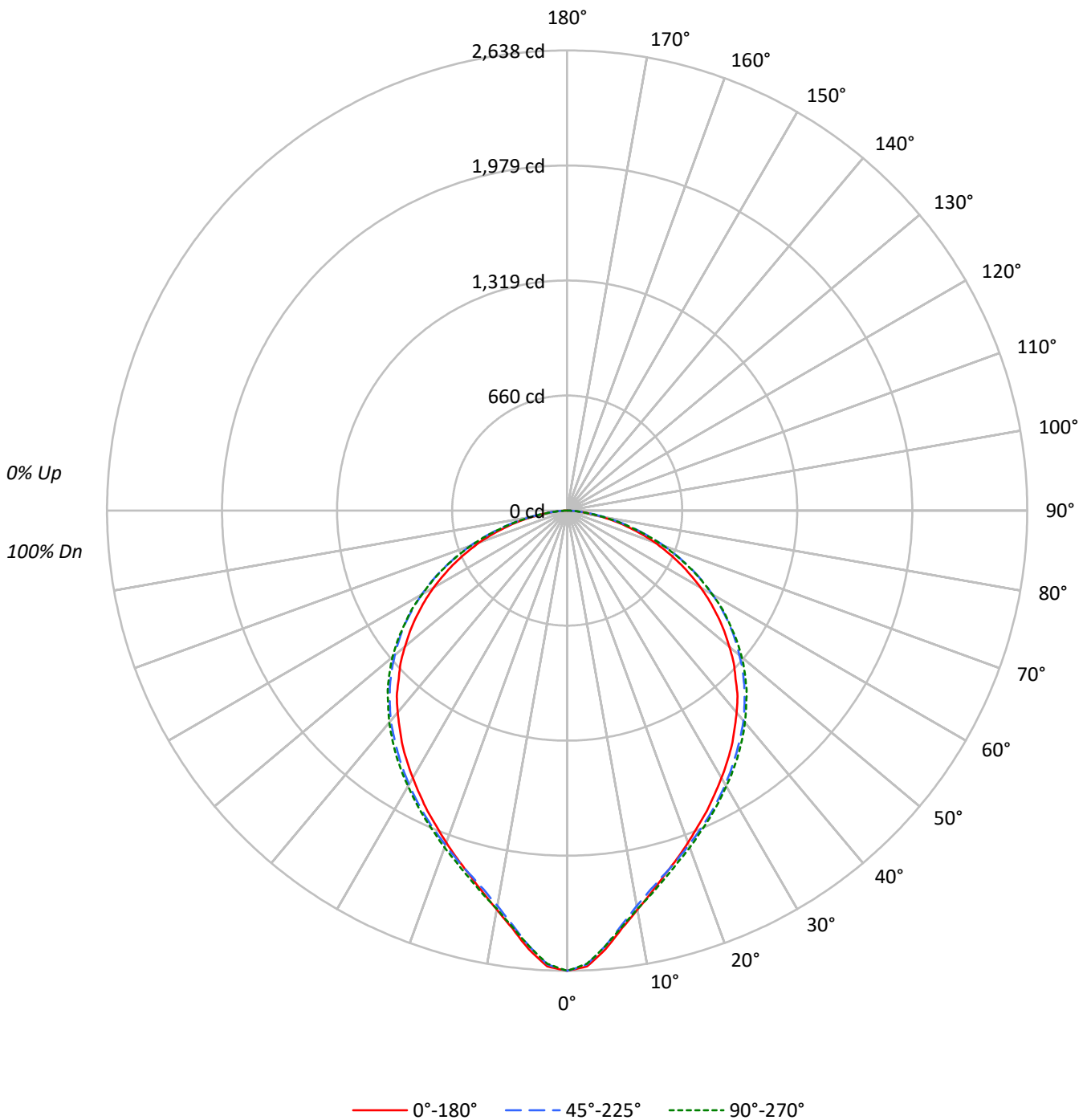
Lumens per Lamp: N/A
Luminaire Lumens: 6128.7 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	7100	7100	7100
5°	6817	6769	6769
10°	6345	6287	6336
15°	6021	6010	6069
20°	5800	5842	5887
25°	5634	5726	5759
30°	5498	5634	5669
35°	5404	5562	5618
40°	5308	5524	5570
45°	5199	5469	5535
50°	5084	5401	5473
55°	4943	5323	5345
60°	4765	5177	5166
65°	4517	4979	4945
70°	4217	4643	4585
75°	3722	4113	4072
80°	3023	3352	3188
85°	2096	2137	2056



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.1	3.8
10°-20°	610.7	10.0
20°-30°	888.1	14.5
30°-40°	1056.8	17.2
40°-50°	1097.3	17.9
50°-60°	994.1	16.2
60°-70°	750.1	12.2
70°-80°	408.7	6.7
80°-90°	89.8	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°	1731.9	28.3
0°-40°	2788.7	45.5
0°-60°	4880.0	79.6
0°-90°	6128.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6128.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2638	2638	2638	2638	2638	
5°	2524	2518	2506	2505	2506	234
15°	2161	2156	2157	2172	2178	610
25°	1898	1913	1928	1944	1940	874
35°	1645	1665	1693	1719	1710	1028
45°	1366	1390	1437	1453	1454	1056
55°	1054	1079	1135	1143	1139	941
65°	709	730	782	781	777	701
75°	358	372	396	398	392	381
85°	68	68	69	68	67	86
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2638.5	2638.5	2638.5	2638.5	2638.5
2.5°	2615.4	2612.8	2604.2	2600.9	2600.2
5°	2523.8	2517.8	2506.0	2504.7	2506.0
7.5°	2414.3	2407.7	2395.9	2400.5	2406.4
10°	2322.0	2305.6	2300.9	2307.5	2318.7
12.5°	2239.6	2226.4	2222.4	2239.6	2247.6
15°	2161.1	2155.9	2157.2	2171.7	2178.3
17.5°	2093.3	2090.0	2098.5	2109.7	2113.1
20°	2025.3	2032.0	2039.9	2051.7	2055.7
22.5°	1958.8	1971.3	1984.5	2000.3	1995.0
25°	1897.5	1913.3	1928.5	1944.3	1939.7
27.5°	1832.2	1850.6	1871.7	1888.9	1882.3
30°	1769.5	1792.6	1813.1	1834.1	1824.3
32.5°	1707.6	1729.3	1753.7	1779.4	1768.2
35°	1644.9	1664.7	1693.1	1718.8	1710.2
37.5°	1575.7	1600.1	1632.4	1654.8	1648.9
40°	1511.1	1533.5	1572.4	1586.9	1585.6
42.5°	1445.8	1464.3	1505.2	1521.6	1519.0
45°	1366.1	1390.5	1437.2	1453.1	1454.4
47.5°	1295.5	1316.0	1366.1	1378.6	1381.2
50°	1214.4	1240.1	1290.2	1305.4	1307.4
52.5°	1134.6	1162.3	1213.8	1224.3	1226.3
55°	1053.5	1078.6	1134.6	1142.6	1139.3
57.5°	968.5	998.8	1050.3	1054.2	1057.5
60°	885.4	911.8	961.9	967.2	959.9
62.5°	795.1	822.1	873.6	874.9	868.9
65°	709.4	729.8	781.9	780.6	776.6
67.5°	619.7	644.8	683.0	684.3	681.1
70°	536.0	553.1	590.1	590.7	582.8
72.5°	445.7	464.1	493.8	489.9	487.9
75°	358.0	372.5	395.6	398.2	391.6
77.5°	277.6	288.1	305.3	303.3	296.0
80°	195.1	203.7	216.3	213.6	205.7
82.5°	124.6	129.9	137.8	134.5	131.2
85°	67.9	68.5	69.2	68.5	66.6
87.5°	25.1	25.7	25.7	25.1	23.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)