

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: P489379

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-5LO-40-120-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: P489379
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-LD4-5LO-40-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

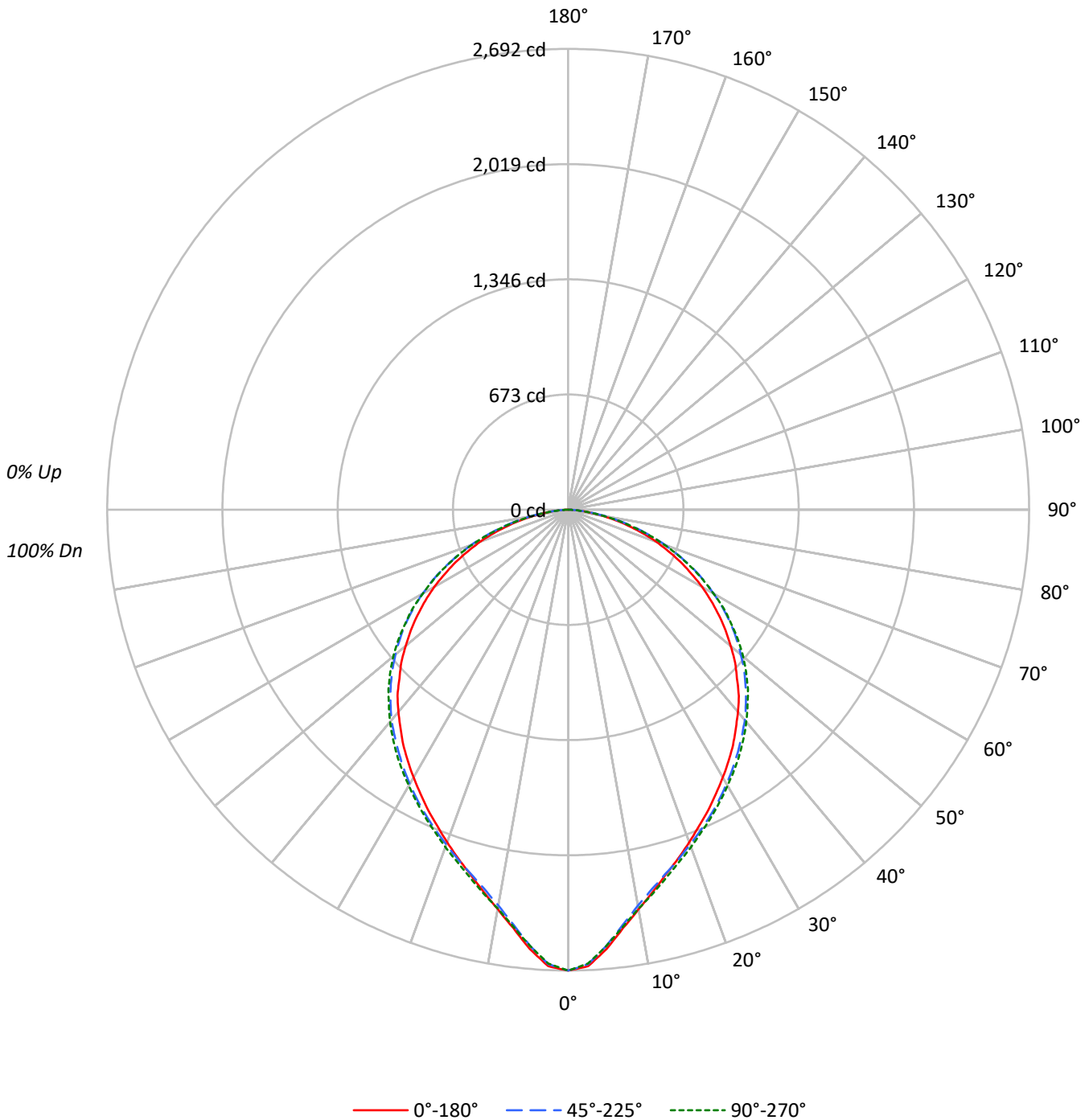
Lumens per Lamp: N/A
Luminaire Lumens: 6253.5 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 58.5
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	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°	7245	7245	7245
5°	6956	6907	6907
10°	6474	6415	6465
15°	6143	6132	6192
20°	5918	5960	6007
25°	5749	5842	5877
30°	5610	5748	5784
35°	5514	5675	5733
40°	5416	5636	5683
45°	5305	5581	5648
50°	5188	5511	5585
55°	5043	5431	5454
60°	4862	5282	5272
65°	4609	5080	5046
70°	4303	4737	4679
75°	3798	4197	4155
80°	3085	3420	3253
85°	2140	2180	2096



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.9	3.8
10°-20°	623.1	10.0
20°-30°	906.1	14.5
30°-40°	1078.3	17.2
40°-50°	1119.6	17.9
50°-60°	1014.3	16.2
60°-70°	765.4	12.2
70°-80°	417.0	6.7
80°-90°	91.6	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°	1767.2	28.3
0°-40°	2845.5	45.5
0°-60°	4979.4	79.6
0°-90°	6253.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6253.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2692	2692	2692	2692	2692	
5°	2575	2569	2557	2556	2557	239
15°	2205	2200	2201	2216	2223	622
25°	1936	1952	1968	1984	1979	892
35°	1678	1699	1728	1754	1745	1049
45°	1394	1419	1466	1483	1484	1077
55°	1075	1100	1158	1166	1162	960
65°	724	745	798	796	792	716
75°	365	380	404	406	400	389
85°	69	70	71	70	68	87
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2692.2	2692.2	2692.2	2692.2	2692.2
2.5°	2668.7	2666.0	2657.2	2653.9	2653.2
5°	2575.2	2569.1	2557.0	2555.7	2557.0
7.5°	2463.5	2456.8	2444.7	2449.4	2455.4
10°	2369.3	2352.5	2347.8	2354.5	2365.9
12.5°	2285.2	2271.8	2267.7	2285.2	2293.3
15°	2205.1	2199.8	2201.1	2216.0	2222.6
17.5°	2135.9	2132.5	2141.3	2152.7	2156.1
20°	2066.6	2073.3	2081.4	2093.5	2097.5
22.5°	1998.7	2011.4	2024.9	2041.0	2035.7
25°	1936.1	1952.2	1967.7	1983.8	1979.2
27.5°	1869.5	1888.3	1909.9	1927.4	1920.6
30°	1805.6	1829.1	1850.0	1871.5	1861.4
32.5°	1742.4	1764.6	1789.4	1815.7	1804.2
35°	1678.4	1698.6	1727.6	1753.8	1745.1
37.5°	1607.8	1632.7	1665.6	1688.5	1682.5
40°	1541.9	1564.8	1604.4	1619.3	1617.9
42.5°	1475.3	1494.1	1535.8	1552.6	1549.9
45°	1393.9	1418.8	1466.5	1482.7	1484.0
47.5°	1321.9	1342.8	1393.9	1406.6	1409.3
50°	1239.2	1265.4	1316.5	1332.0	1334.0
52.5°	1157.7	1186.0	1238.5	1249.2	1251.3
55°	1075.0	1100.5	1157.7	1165.8	1162.5
57.5°	988.2	1019.2	1071.7	1075.7	1079.0
60°	903.4	930.4	981.5	986.9	979.5
62.5°	811.3	838.9	891.4	892.7	886.6
65°	723.8	744.7	797.8	796.5	792.4
67.5°	632.3	657.9	696.9	698.3	694.9
70°	546.9	564.4	602.1	602.8	594.7
72.5°	454.8	473.6	503.8	499.8	497.8
75°	365.3	380.1	403.7	406.3	399.6
77.5°	283.2	294.0	311.5	309.5	302.0
80°	199.1	207.9	220.7	218.0	209.9
82.5°	127.1	132.6	140.6	137.2	133.9
85°	69.3	69.9	70.6	69.9	67.9
87.5°	25.6	26.2	26.2	25.6	23.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)