

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: P488832

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-3LO-27-120-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: P488832
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-12-4-INS-P12125-LD4-3LO-27-120-EDD-90
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

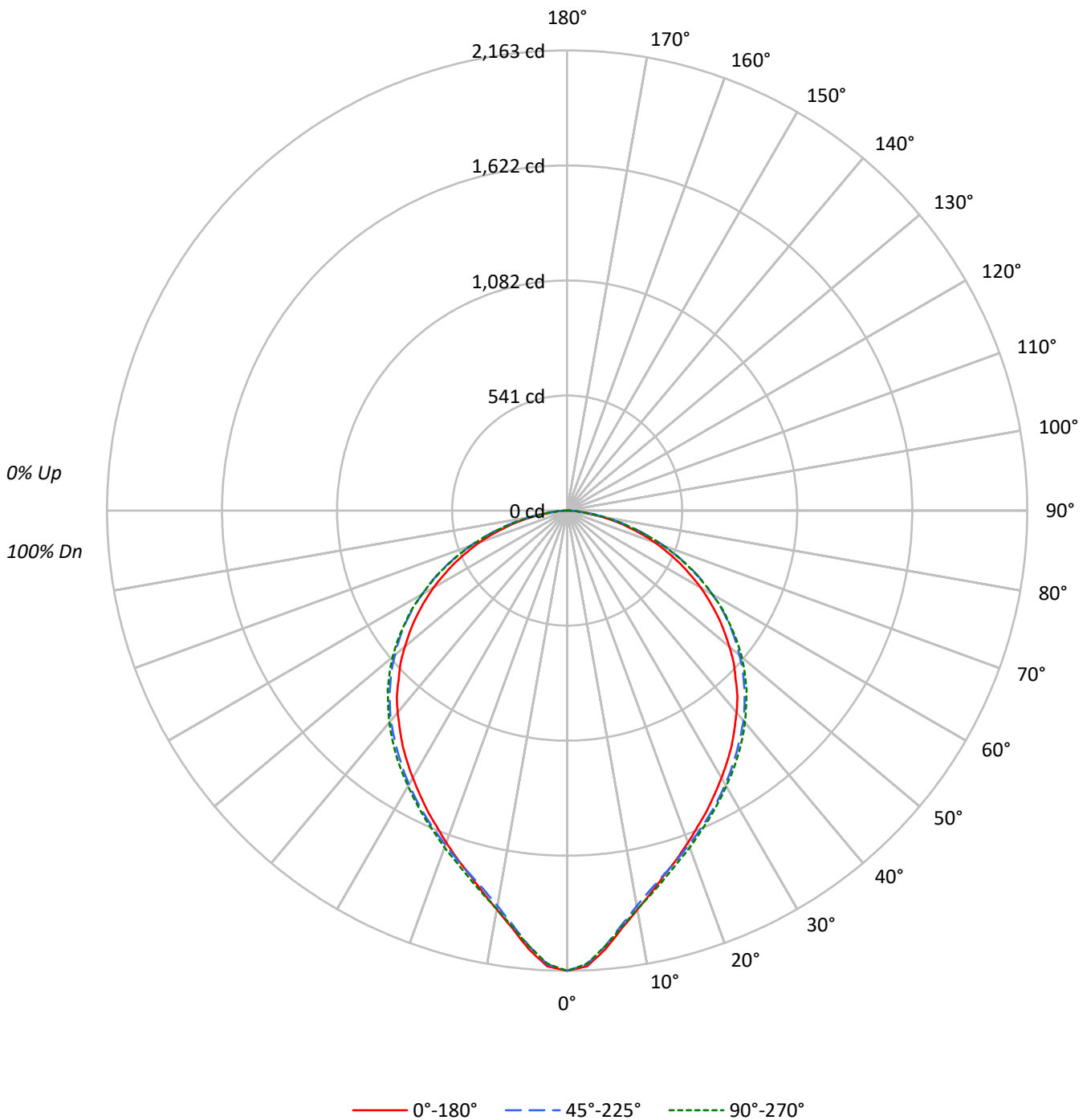
Lumens per Lamp: N/A
Luminaire Lumens: 5024.0 lumens
Efficiency: N/A
Efficacy: 71.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 70.2
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°	5820	5820	5820
5°	5589	5549	5549
10°	5201	5154	5194
15°	4936	4927	4975
20°	4755	4789	4826
25°	4618	4694	4721
30°	4507	4618	4647
35°	4430	4559	4606
40°	4351	4528	4566
45°	4262	4484	4537
50°	4168	4428	4487
55°	4052	4364	4381
60°	3906	4244	4235
65°	3703	4082	4053
70°	3457	3806	3759
75°	3052	3372	3337
80°	2479	2748	2613
85°	1720	1751	1686



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.1	3.8
10°-20°	500.6	10.0
20°-30°	728.0	14.5
30°-40°	866.3	17.2
40°-50°	899.5	17.9
50°-60°	814.9	16.2
60°-70°	614.9	12.2
70°-80°	335.1	6.7
80°-90°	73.6	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°	1419.7	28.3
0°-40°	2286.0	45.5
0°-60°	4000.4	79.6
0°-90°	5024.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5024.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2163	2163	2163	2163	2163	
5°	2069	2064	2054	2053	2054	192
15°	1772	1767	1768	1780	1786	500
25°	1555	1568	1581	1594	1590	717
35°	1348	1365	1388	1409	1402	843
45°	1120	1140	1178	1191	1192	866
55°	864	884	930	937	934	771
65°	582	598	641	640	637	575
75°	294	305	324	326	321	313
85°	56	56	57	56	55	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2162.9	2162.9	2162.9	2162.9	2162.9
2.5°	2144.0	2141.8	2134.8	2132.1	2131.5
5°	2068.9	2064.0	2054.3	2053.2	2054.3
7.5°	1979.2	1973.7	1964.0	1967.8	1972.7
10°	1903.5	1890.0	1886.2	1891.6	1900.8
12.5°	1835.9	1825.1	1821.9	1835.9	1842.4
15°	1771.6	1767.3	1768.4	1780.3	1785.7
17.5°	1716.0	1713.2	1720.3	1729.5	1732.2
20°	1660.3	1665.7	1672.2	1681.9	1685.1
22.5°	1605.7	1615.9	1626.8	1639.7	1635.4
25°	1555.4	1568.4	1580.8	1593.8	1590.0
27.5°	1501.9	1517.0	1534.4	1548.4	1543.0
30°	1450.6	1469.5	1486.3	1503.5	1495.4
32.5°	1399.8	1417.6	1437.6	1458.7	1449.5
35°	1348.4	1364.7	1387.9	1409.0	1402.0
37.5°	1291.7	1311.7	1338.1	1356.5	1351.7
40°	1238.7	1257.1	1289.0	1300.9	1299.8
42.5°	1185.2	1200.4	1233.9	1247.4	1245.2
45°	1119.8	1139.8	1178.2	1191.2	1192.2
47.5°	1062.0	1078.8	1119.8	1130.1	1132.2
50°	995.5	1016.6	1057.7	1070.1	1071.7
52.5°	930.1	952.8	995.0	1003.6	1005.3
55°	863.6	884.2	930.1	936.6	933.9
57.5°	793.9	818.8	861.0	864.2	866.9
60°	725.8	747.4	788.5	792.8	786.9
62.5°	651.8	673.9	716.1	717.2	712.3
65°	581.5	598.3	641.0	639.9	636.6
67.5°	508.0	528.5	559.9	561.0	558.3
70°	439.4	453.4	483.7	484.3	477.8
72.5°	365.4	380.5	404.8	401.6	400.0
75°	293.5	305.4	324.3	326.5	321.0
77.5°	227.5	236.2	250.2	248.6	242.7
80°	160.0	167.0	177.3	175.1	168.6
82.5°	102.1	106.5	113.0	110.3	107.5
85°	55.7	56.2	56.7	56.2	54.6
87.5°	20.5	21.1	21.1	20.5	18.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)