

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: P489347

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-4STD-20-120-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: P489347
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-LD4-4STD-20-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

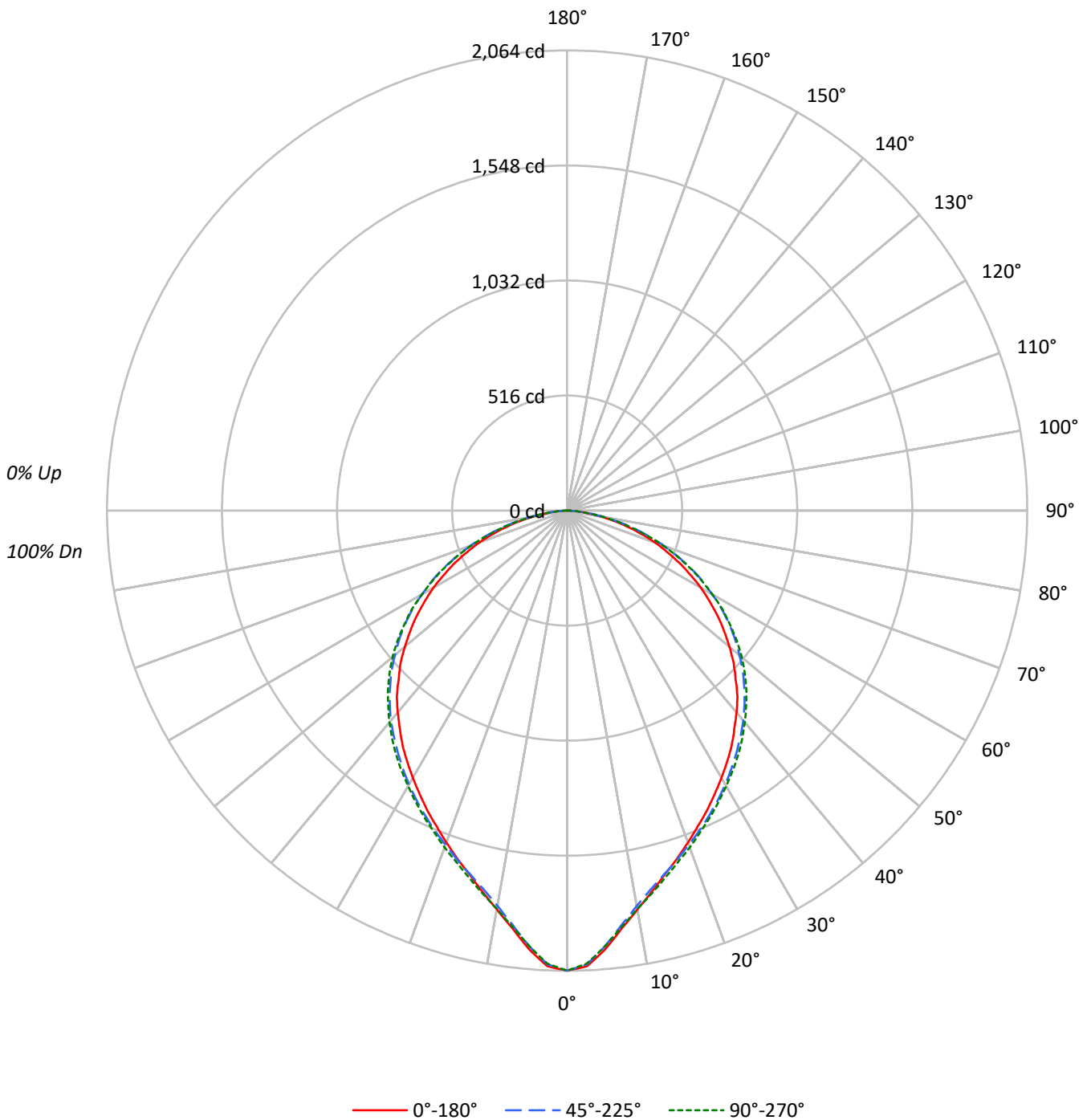
Lumens per Lamp: N/A
Luminaire Lumens: 4793.3 lumens
Efficiency: N/A
Efficacy: 72.0 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
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°	5553	5553	5553
5°	5332	5294	5294
10°	4962	4917	4955
15°	4709	4700	4746
20°	4536	4569	4604
25°	4406	4478	4504
30°	4300	4406	4433
35°	4226	4350	4394
40°	4152	4320	4356
45°	4066	4278	4329
50°	3976	4225	4281
55°	3866	4163	4180
60°	3727	4049	4041
65°	3533	3894	3868
70°	3298	3631	3586
75°	2911	3217	3185
80°	2365	2620	2493
85°	1639	1670	1609



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.3	3.8
10°-20°	477.6	10.0
20°-30°	694.6	14.5
30°-40°	826.5	17.2
40°-50°	858.2	17.9
50°-60°	777.5	16.2
60°-70°	586.7	12.2
70°-80°	319.7	6.7
80°-90°	70.2	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°	1354.5	28.3
0°-40°	2181.0	45.5
0°-60°	3816.7	79.6
0°-90°	4793.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4793.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2064	2064	2064	2064	2064	
5°	1974	1969	1960	1959	1960	183
15°	1690	1686	1687	1698	1704	477
25°	1484	1496	1508	1521	1517	684
35°	1286	1302	1324	1344	1338	804
45°	1068	1088	1124	1136	1138	826
55°	824	844	887	894	891	736
65°	555	571	612	610	607	548
75°	280	291	309	312	306	298
85°	53	54	54	54	52	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2063.6	2063.6	2063.6	2063.6	2063.6
2.5°	2045.5	2043.5	2036.8	2034.2	2033.7
5°	1973.9	1969.2	1959.9	1958.9	1959.9
7.5°	1888.3	1883.1	1873.8	1877.4	1882.1
10°	1816.1	1803.2	1799.6	1804.7	1813.5
12.5°	1751.6	1741.3	1738.2	1751.6	1757.8
15°	1690.2	1686.1	1687.2	1698.5	1703.7
17.5°	1637.2	1634.6	1641.3	1650.0	1652.6
20°	1584.0	1589.2	1595.4	1604.7	1607.8
22.5°	1532.0	1541.7	1552.1	1564.4	1560.3
25°	1484.0	1496.4	1508.3	1520.6	1517.0
27.5°	1433.0	1447.4	1463.9	1477.3	1472.1
30°	1384.0	1402.0	1418.0	1434.5	1426.8
32.5°	1335.5	1352.5	1371.6	1391.7	1382.9
35°	1286.5	1302.0	1324.2	1344.3	1337.6
37.5°	1232.4	1251.5	1276.7	1294.2	1289.6
40°	1181.9	1199.4	1229.8	1241.2	1240.1
42.5°	1130.8	1145.3	1177.2	1190.1	1188.0
45°	1068.4	1087.5	1124.1	1136.5	1137.5
47.5°	1013.2	1029.2	1068.4	1078.2	1080.3
50°	949.8	969.9	1009.1	1020.9	1022.5
52.5°	887.4	909.0	949.3	957.5	959.1
55°	824.0	843.6	887.4	893.6	891.0
57.5°	757.5	781.2	821.4	824.5	827.1
60°	692.5	713.1	752.3	756.4	750.8
62.5°	621.9	643.0	683.2	684.2	679.6
65°	554.8	570.8	611.5	610.5	607.4
67.5°	484.7	504.3	534.2	535.2	532.7
70°	419.2	432.6	461.5	462.0	455.8
72.5°	348.6	363.0	386.2	383.1	381.6
75°	280.0	291.3	309.4	311.5	306.3
77.5°	217.1	225.3	238.7	237.2	231.5
80°	152.6	159.3	169.1	167.1	160.9
82.5°	97.4	101.6	107.8	105.2	102.6
85°	53.1	53.6	54.1	53.6	52.1
87.5°	19.6	20.1	20.1	19.6	18.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)