

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: P488766

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-1LO-40-120-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: P488766
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-LD4-1LO-40-120-EDD-90
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

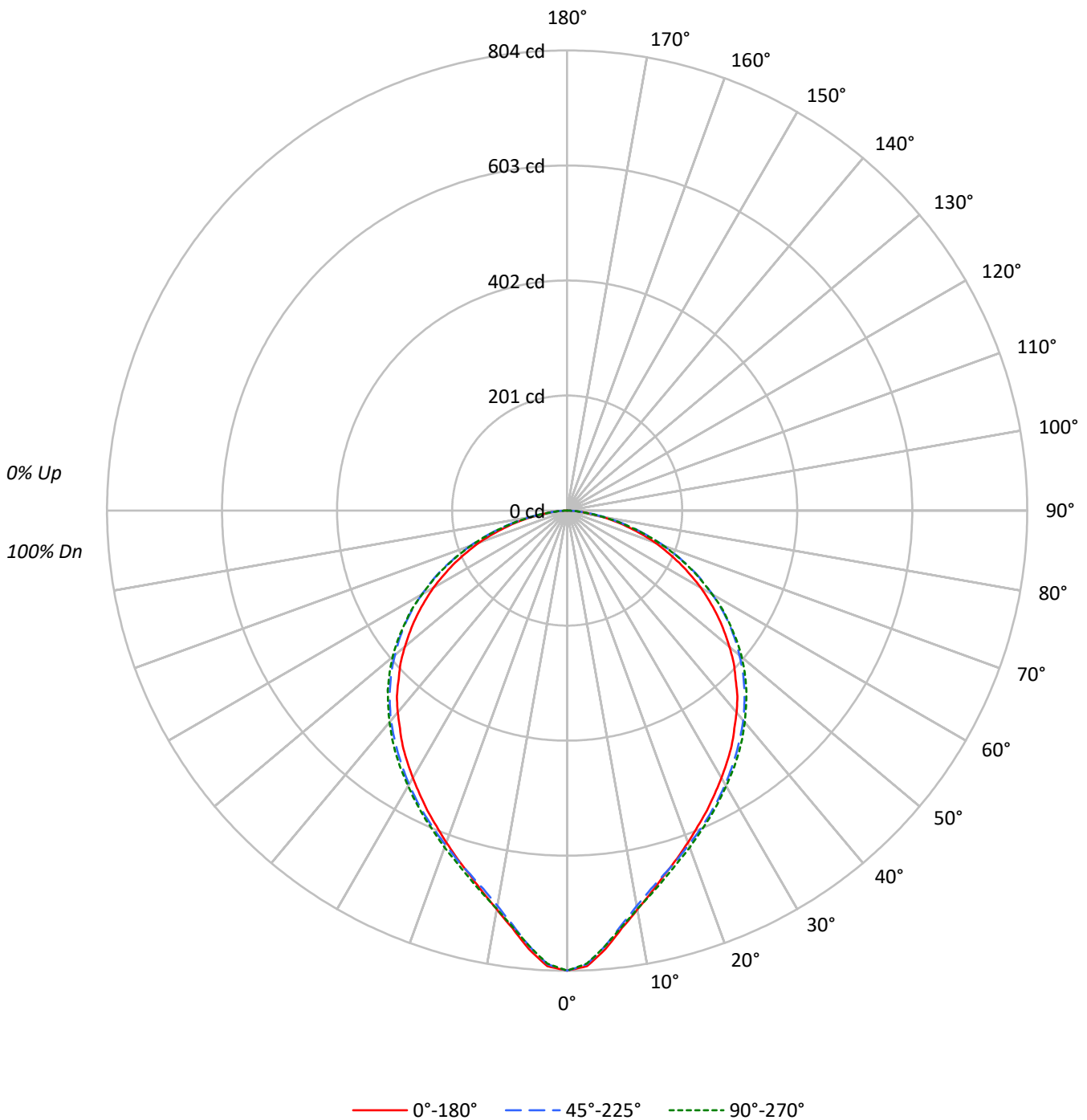
Lumens per Lamp: N/A
Luminaire Lumens: 1867.0 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.23
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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: P488766

CATALOG NUMBER: CLM-12-4-INS-P12125-LD4-1LO-40-120-EDD-90

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°	2163	2163	2163
5°	2077	2062	2062
10°	1933	1915	1930
15°	1834	1831	1849
20°	1767	1779	1793
25°	1716	1744	1754
30°	1675	1716	1727
35°	1646	1694	1712
40°	1617	1683	1697
45°	1584	1666	1686
50°	1549	1646	1667
55°	1506	1621	1628
60°	1452	1577	1574
65°	1376	1517	1507
70°	1285	1415	1397
75°	1134	1253	1240
80°	921	1021	972
85°	639	651	627



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.0	3.8
10°-20°	186.0	10.0
20°-30°	270.5	14.5
30°-40°	321.9	17.2
40°-50°	334.3	17.9
50°-60°	302.8	16.2
60°-70°	228.5	12.2
70°-80°	124.5	6.7
80°-90°	27.4	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°	527.6	28.3
0°-40°	849.5	45.5
0°-60°	1486.6	79.6
0°-90°	1867.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1867.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	804	804	804	804	804	
5°	769	767	763	763	763	71
15°	658	657	657	662	664	186
25°	578	583	588	592	591	266
35°	501	507	516	524	521	313
45°	416	424	438	443	443	322
55°	321	329	346	348	347	287
65°	216	222	238	238	237	214
75°	109	114	120	121	119	116
85°	21	21	21	21	20	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	803.8	803.8	803.8	803.8	803.8
2.5°	796.7	795.9	793.3	792.3	792.1
5°	768.8	767.0	763.4	763.0	763.4
7.5°	735.5	733.5	729.9	731.3	733.1
10°	707.4	702.3	700.9	702.9	706.4
12.5°	682.3	678.2	677.0	682.3	684.7
15°	658.4	656.7	657.2	661.6	663.6
17.5°	637.7	636.7	639.3	642.7	643.7
20°	617.0	619.0	621.4	625.0	626.2
22.5°	596.7	600.5	604.5	609.4	607.8
25°	578.0	582.8	587.5	592.3	590.9
27.5°	558.1	563.8	570.2	575.4	573.4
30°	539.1	546.1	552.3	558.7	555.7
32.5°	520.2	526.8	534.2	542.1	538.7
35°	501.1	507.1	515.8	523.6	521.0
37.5°	480.0	487.4	497.3	504.1	502.3
40°	460.3	467.2	479.0	483.4	483.0
42.5°	440.4	446.1	458.5	463.5	462.7
45°	416.2	423.6	437.8	442.7	443.1
47.5°	394.7	400.9	416.2	420.0	420.8
50°	370.0	377.8	393.1	397.7	398.3
52.5°	345.6	354.1	369.7	373.0	373.6
55°	320.9	328.6	345.6	348.1	347.1
57.5°	295.0	304.3	319.9	321.1	322.2
60°	269.7	277.8	293.0	294.6	292.4
62.5°	242.2	250.4	266.1	266.5	264.7
65°	216.1	222.3	238.2	237.8	236.6
67.5°	188.8	196.4	208.1	208.5	207.5
70°	163.3	168.5	179.8	180.0	177.6
72.5°	135.8	141.4	150.4	149.2	148.6
75°	109.1	113.5	120.5	121.3	119.3
77.5°	84.6	87.8	93.0	92.4	90.2
80°	59.4	62.1	65.9	65.1	62.7
82.5°	38.0	39.6	42.0	41.0	40.0
85°	20.7	20.9	21.1	20.9	20.3
87.5°	7.6	7.8	7.8	7.6	7.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)