

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: P488755

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-1HI-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: P488755
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-LD4-1HI-40-120-EDD
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

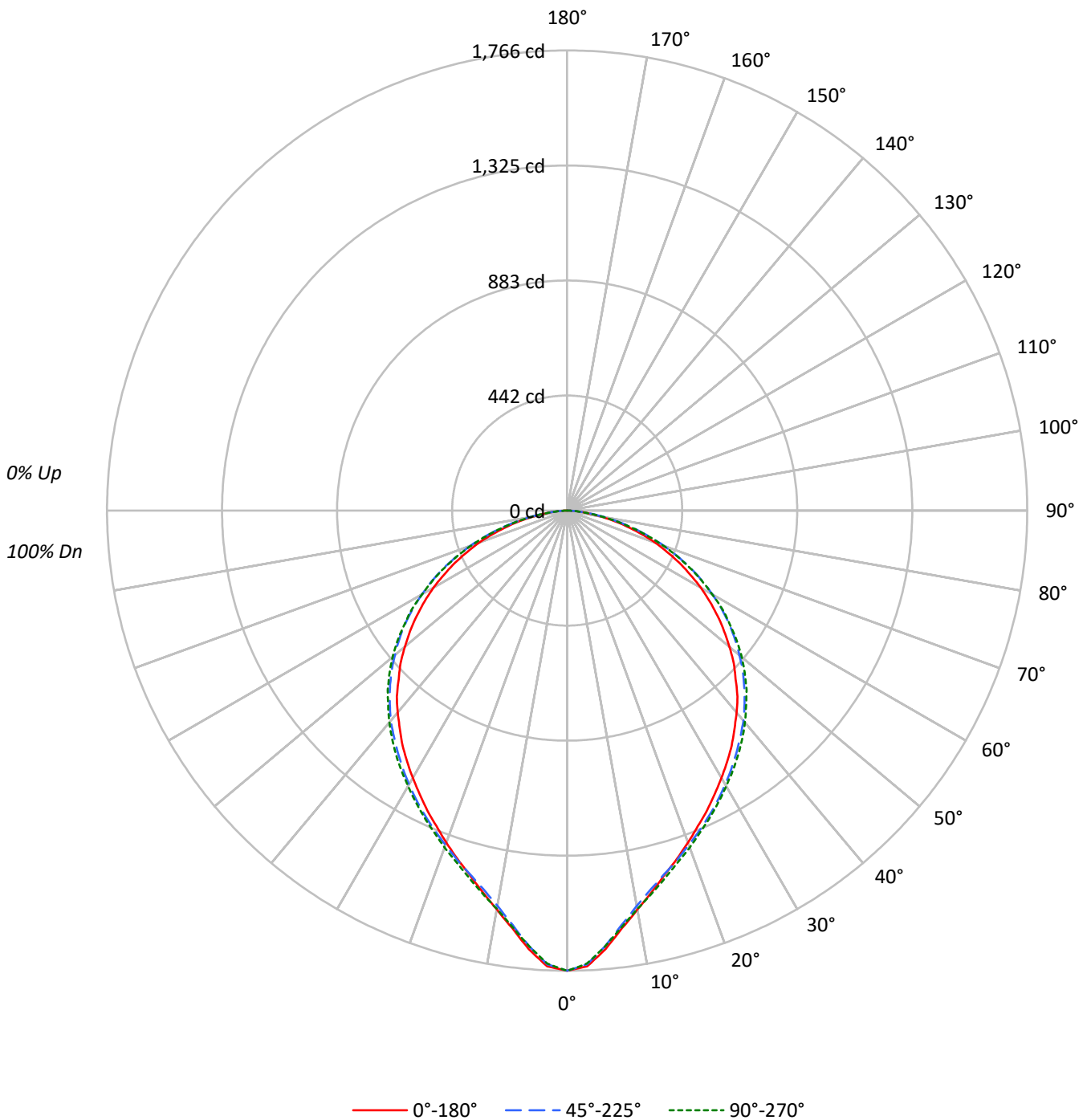
Lumens per Lamp: N/A
Luminaire Lumens: 4102.1 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
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°	4752	4752	4752
5°	4563	4531	4531
10°	4247	4208	4241
15°	4030	4023	4062
20°	3882	3910	3940
25°	3771	3833	3855
30°	3680	3771	3794
35°	3617	3723	3760
40°	3553	3697	3728
45°	3479	3661	3705
50°	3403	3615	3664
55°	3309	3563	3577
60°	3189	3465	3458
65°	3023	3332	3310
70°	2822	3107	3069
75°	2491	2753	2725
80°	2024	2244	2134
85°	1405	1430	1377



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.1	3.8
10°-20°	408.8	10.0
20°-30°	594.4	14.5
30°-40°	707.3	17.2
40°-50°	734.4	17.9
50°-60°	665.4	16.2
60°-70°	502.1	12.2
70°-80°	273.6	6.7
80°-90°	60.1	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°	1159.2	28.3
0°-40°	1866.5	45.5
0°-60°	3266.3	79.6
0°-90°	4102.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4102.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1766	1766	1766	1766	1766	
5°	1689	1685	1677	1676	1677	157
15°	1446	1443	1444	1454	1458	408
25°	1270	1281	1291	1301	1298	585
35°	1101	1114	1133	1150	1145	688
45°	914	931	962	973	974	707
55°	705	722	759	765	762	630
65°	475	488	523	522	520	469
75°	240	249	265	266	262	255
85°	46	46	46	46	45	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1766.0	1766.0	1766.0	1766.0	1766.0
2.5°	1750.6	1748.8	1743.1	1740.8	1740.4
5°	1689.2	1685.3	1677.3	1676.4	1677.3
7.5°	1616.0	1611.6	1603.6	1606.7	1610.7
10°	1554.2	1543.2	1540.1	1544.5	1552.0
12.5°	1499.0	1490.2	1487.5	1499.0	1504.3
15°	1446.5	1443.0	1443.9	1453.6	1458.0
17.5°	1401.1	1398.9	1404.6	1412.1	1414.3
20°	1355.6	1360.0	1365.3	1373.3	1375.9
22.5°	1311.1	1319.4	1328.3	1338.9	1335.3
25°	1270.0	1280.6	1290.8	1301.3	1298.3
27.5°	1226.3	1238.7	1252.8	1264.3	1259.9
30°	1184.4	1199.8	1213.5	1227.6	1221.0
32.5°	1142.9	1157.5	1173.8	1191.0	1183.5
35°	1101.0	1114.2	1133.2	1150.4	1144.7
37.5°	1054.7	1071.0	1092.6	1107.6	1103.7
40°	1011.4	1026.4	1052.5	1062.2	1061.3
42.5°	967.7	980.1	1007.4	1018.5	1016.7
45°	914.3	930.7	962.0	972.6	973.5
47.5°	867.1	880.8	914.3	922.7	924.5
50°	812.8	830.1	863.6	873.7	875.1
52.5°	759.4	778.0	812.4	819.4	820.8
55°	705.2	721.9	759.4	764.8	762.5
57.5°	648.3	668.5	703.0	705.6	707.8
60°	592.6	610.3	643.8	647.4	642.5
62.5°	532.2	550.3	584.7	585.6	581.6
65°	474.8	488.5	523.3	522.5	519.8
67.5°	414.8	431.6	457.2	458.0	455.9
70°	358.7	370.2	394.9	395.4	390.1
72.5°	298.3	310.7	330.5	327.9	326.6
75°	239.6	249.3	264.8	266.5	262.1
77.5°	185.8	192.8	204.3	203.0	198.1
80°	130.6	136.3	144.8	143.0	137.7
82.5°	83.4	86.9	92.2	90.0	87.8
85°	45.5	45.9	46.3	45.9	44.6
87.5°	16.8	17.2	17.2	16.8	15.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)