

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: P488808

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-2STD-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: P488808
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-LD4-2STD-27-120-EDD-90
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

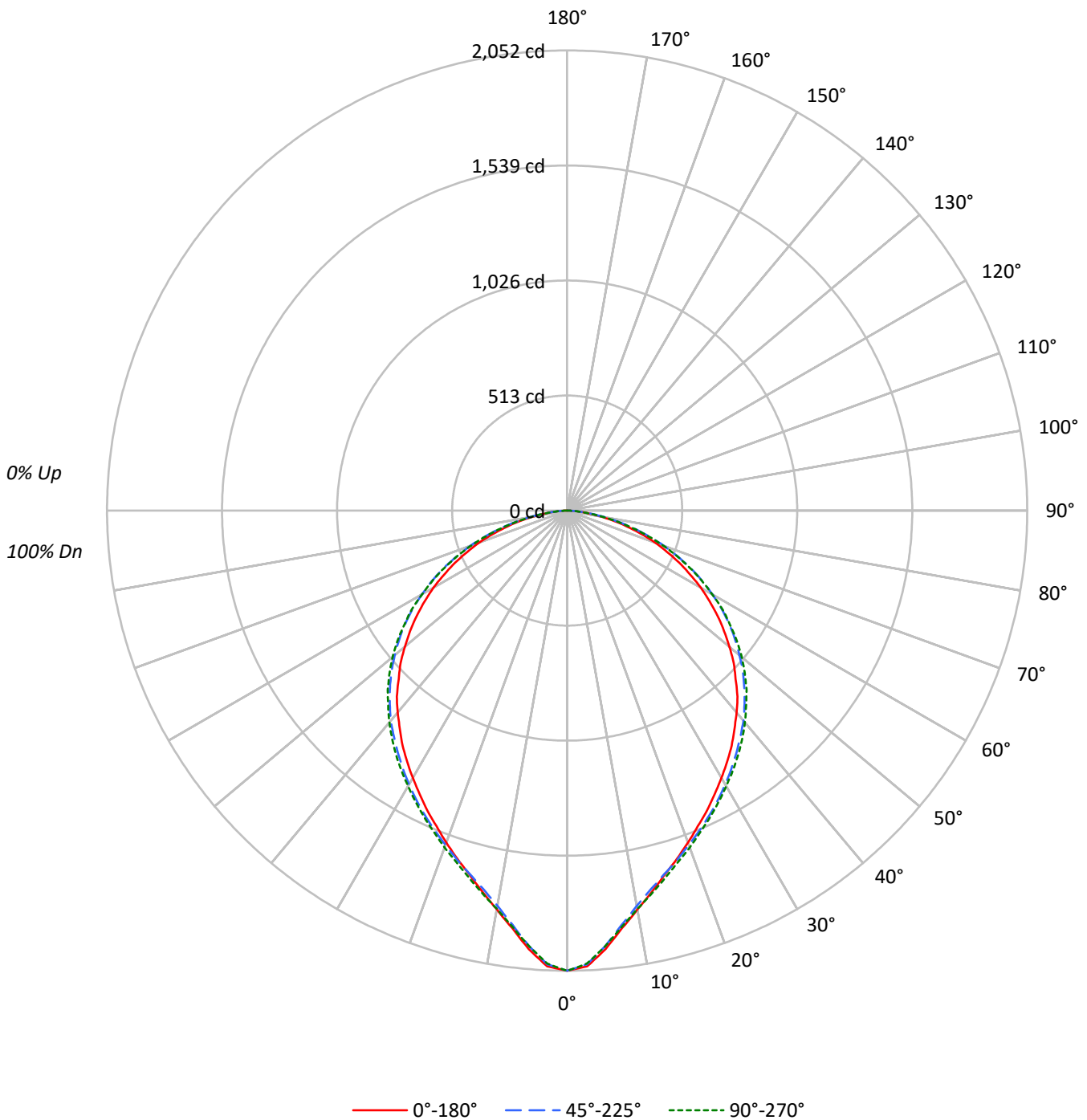
Lumens per Lamp: N/A
Luminaire Lumens: 4766.4 lumens
Efficiency: N/A
Efficacy: 71.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
Input Voltage (V): NR
Input Current (A_{in}): 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°	5522	5522	5522
5°	5302	5264	5264
10°	4935	4890	4928
15°	4683	4674	4720
20°	4511	4543	4578
25°	4382	4453	4479
30°	4276	4382	4409
35°	4203	4325	4369
40°	4128	4296	4332
45°	4043	4254	4305
50°	3954	4201	4257
55°	3844	4140	4157
60°	3706	4026	4018
65°	3513	3872	3846
70°	3279	3611	3567
75°	2895	3199	3167
80°	2352	2607	2479
85°	1630	1661	1599



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.3	3.8
10°-20°	474.9	10.0
20°-30°	690.7	14.5
30°-40°	821.9	17.2
40°-50°	853.4	17.9
50°-60°	773.1	16.2
60°-70°	583.4	12.2
70°-80°	317.9	6.7
80°-90°	69.8	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°	1346.9	28.3
0°-40°	2168.8	45.5
0°-60°	3795.3	79.6
0°-90°	4766.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4766.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2052	2052	2052	2052	2052	
5°	1963	1958	1949	1948	1949	182
15°	1681	1677	1678	1689	1694	474
25°	1476	1488	1500	1512	1508	680
35°	1279	1295	1317	1337	1330	800
45°	1062	1081	1118	1130	1131	821
55°	819	839	882	889	886	732
65°	552	568	608	607	604	545
75°	278	290	308	310	305	297
85°	53	53	54	53	52	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2052.0	2052.0	2052.0	2052.0	2052.0
2.5°	2034.1	2032.0	2025.3	2022.8	2022.2
5°	1962.8	1958.2	1948.9	1947.9	1948.9
7.5°	1877.7	1872.5	1863.3	1866.9	1871.5
10°	1805.9	1793.1	1789.5	1794.6	1803.3
12.5°	1741.8	1731.5	1728.4	1741.8	1748.0
15°	1680.8	1676.7	1677.7	1689.0	1694.1
17.5°	1628.0	1625.4	1632.1	1640.8	1643.4
20°	1575.2	1580.3	1586.4	1595.7	1598.7
22.5°	1523.4	1533.1	1543.4	1555.7	1551.6
25°	1475.7	1488.0	1499.8	1512.1	1508.5
27.5°	1424.9	1439.3	1455.7	1469.0	1463.9
30°	1376.2	1394.1	1410.1	1426.4	1418.8
32.5°	1328.0	1344.9	1363.9	1383.9	1375.2
35°	1279.3	1294.7	1316.7	1336.7	1330.1
37.5°	1225.5	1244.4	1269.5	1287.0	1282.4
40°	1175.2	1192.7	1222.9	1234.2	1233.1
42.5°	1124.4	1138.8	1170.6	1183.4	1181.4
45°	1062.4	1081.4	1117.8	1130.1	1131.1
47.5°	1007.5	1023.5	1062.4	1072.1	1074.2
50°	944.5	964.5	1003.5	1015.2	1016.8
52.5°	882.4	903.9	944.0	952.2	953.7
55°	819.3	838.8	882.4	888.6	886.0
57.5°	753.2	776.8	816.8	819.9	822.4
60°	688.6	709.1	748.1	752.2	746.6
62.5°	618.4	639.4	679.4	680.4	675.8
65°	551.7	567.6	608.1	607.1	604.0
67.5°	482.0	501.4	531.2	532.2	529.7
70°	416.8	430.2	458.9	459.4	453.3
72.5°	346.6	361.0	384.0	381.0	379.4
75°	278.4	289.7	307.7	309.7	304.6
77.5°	215.9	224.1	237.4	235.9	230.2
80°	151.8	158.4	168.2	166.1	160.0
82.5°	96.9	101.0	107.2	104.6	102.0
85°	52.8	53.3	53.8	53.3	51.8
87.5°	19.5	20.0	20.0	19.5	18.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)