

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: P488812

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-2STD-35-120-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: P488812
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-35-120-EDD-90
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

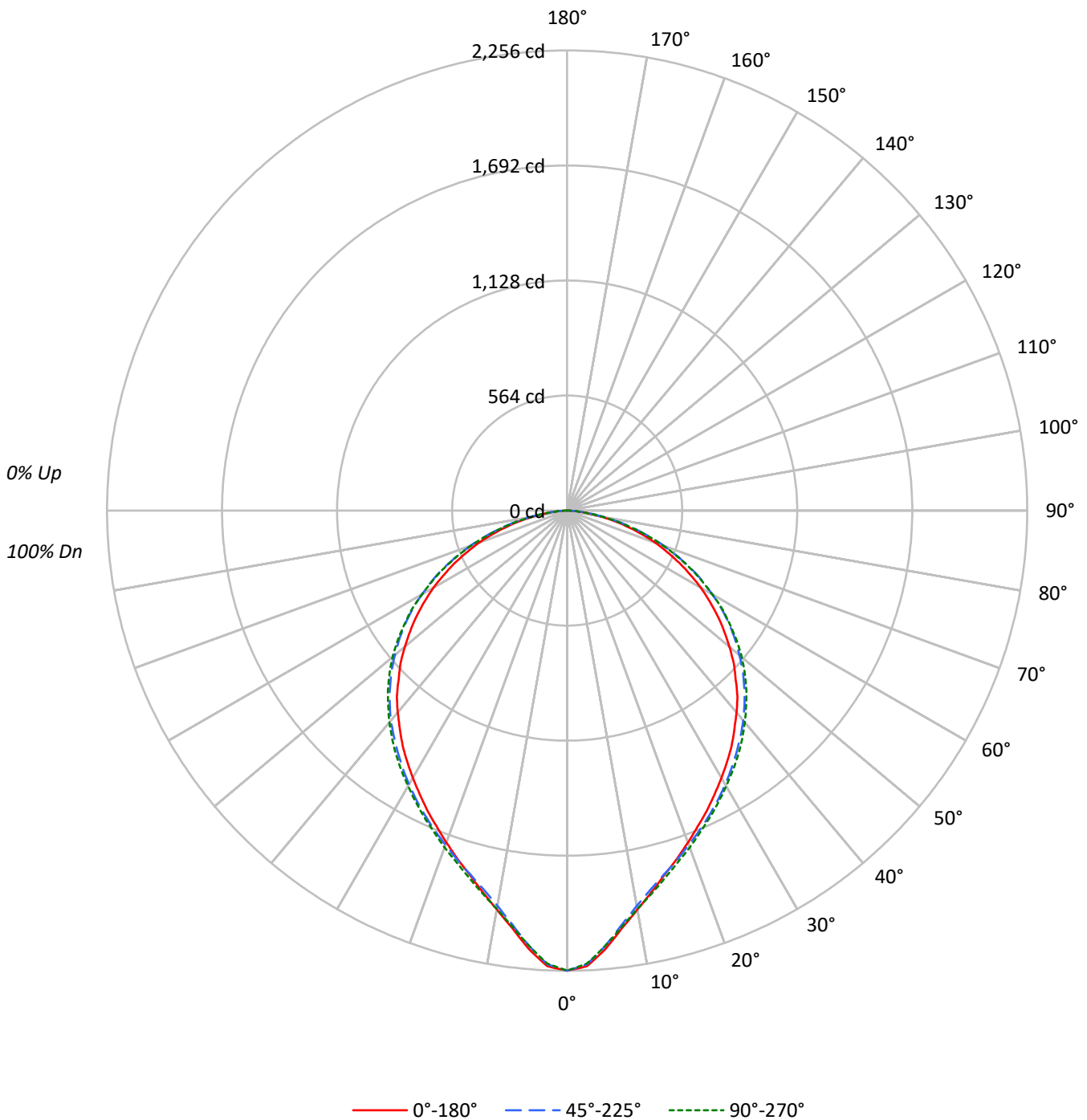
Lumens per Lamp: N/A
Luminaire Lumens: 5239.3 lumens
Efficiency: N/A
Efficacy: 78.7 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
Input Voltage (V): NR
Input Current (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°	6070	6070	6070
5°	5828	5787	5787
10°	5424	5375	5416
15°	5147	5138	5188
20°	4958	4994	5032
25°	4816	4895	4923
30°	4700	4816	4846
35°	4619	4755	4803
40°	4538	4722	4762
45°	4444	4676	4732
50°	4346	4618	4679
55°	4225	4551	4569
60°	4074	4426	4416
65°	3861	4256	4227
70°	3605	3969	3921
75°	3182	3516	3481
80°	2585	2865	2724
85°	1794	1828	1757



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.3	3.8
10°-20°	522.1	10.0
20°-30°	759.2	14.5
30°-40°	903.4	17.2
40°-50°	938.0	17.9
50°-60°	849.8	16.2
60°-70°	641.3	12.2
70°-80°	349.4	6.7
80°-90°	76.8	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°	1480.6	28.3
0°-40°	2384.0	45.5
0°-60°	4171.8	79.6
0°-90°	5239.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5239.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2256	2256	2256	2256	2256	
5°	2158	2152	2142	2141	2142	200
15°	1848	1843	1844	1857	1862	521
25°	1622	1636	1649	1662	1658	747
35°	1406	1423	1447	1469	1462	879
45°	1168	1189	1229	1242	1243	903
55°	901	922	970	977	974	804
65°	606	624	668	667	664	599
75°	306	318	338	340	335	326
85°	58	59	59	59	57	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2255.6	2255.6	2255.6	2255.6	2255.6
2.5°	2235.9	2233.6	2226.3	2223.5	2222.9
5°	2157.5	2152.5	2142.3	2141.2	2142.3
7.5°	2064.0	2058.3	2048.2	2052.1	2057.2
10°	1985.1	1971.0	1967.0	1972.7	1982.2
12.5°	1914.6	1903.3	1899.9	1914.6	1921.4
15°	1847.5	1843.0	1844.2	1856.6	1862.2
17.5°	1789.5	1786.7	1794.0	1803.6	1806.4
20°	1731.4	1737.1	1743.8	1754.0	1757.3
22.5°	1674.5	1685.2	1696.5	1710.0	1705.5
25°	1622.1	1635.6	1648.6	1662.1	1658.2
27.5°	1566.3	1582.0	1600.1	1614.8	1609.1
30°	1512.7	1532.5	1550.0	1568.0	1559.5
32.5°	1459.8	1478.4	1499.2	1521.2	1511.6
35°	1406.2	1423.1	1447.4	1469.4	1462.0
37.5°	1347.1	1367.9	1395.5	1414.7	1409.6
40°	1291.8	1311.0	1344.2	1356.6	1355.5
42.5°	1236.0	1251.8	1286.7	1300.8	1298.6
45°	1167.8	1188.7	1228.7	1242.2	1243.3
47.5°	1107.5	1125.0	1167.8	1178.5	1180.8
50°	1038.2	1060.2	1103.0	1115.9	1117.7
52.5°	970.0	993.6	1037.6	1046.6	1048.3
55°	900.6	922.1	970.0	976.8	973.9
57.5°	828.0	853.9	897.9	901.2	904.0
60°	756.9	779.5	822.3	826.8	820.6
62.5°	679.7	702.8	746.8	747.9	742.8
65°	606.4	623.9	668.4	667.3	663.9
67.5°	529.8	551.2	583.9	585.0	582.2
70°	458.2	472.9	504.4	505.0	498.3
72.5°	381.0	396.8	422.1	418.8	417.1
75°	306.0	318.5	338.2	340.4	334.8
77.5°	237.3	246.3	261.0	259.3	253.1
80°	166.8	174.1	184.9	182.6	175.8
82.5°	106.5	111.1	117.8	115.0	112.2
85°	58.1	58.6	59.2	58.6	56.9
87.5°	21.4	22.0	22.0	21.4	19.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)