

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: P489349

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-4STD-27-120-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: P489349
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-27-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

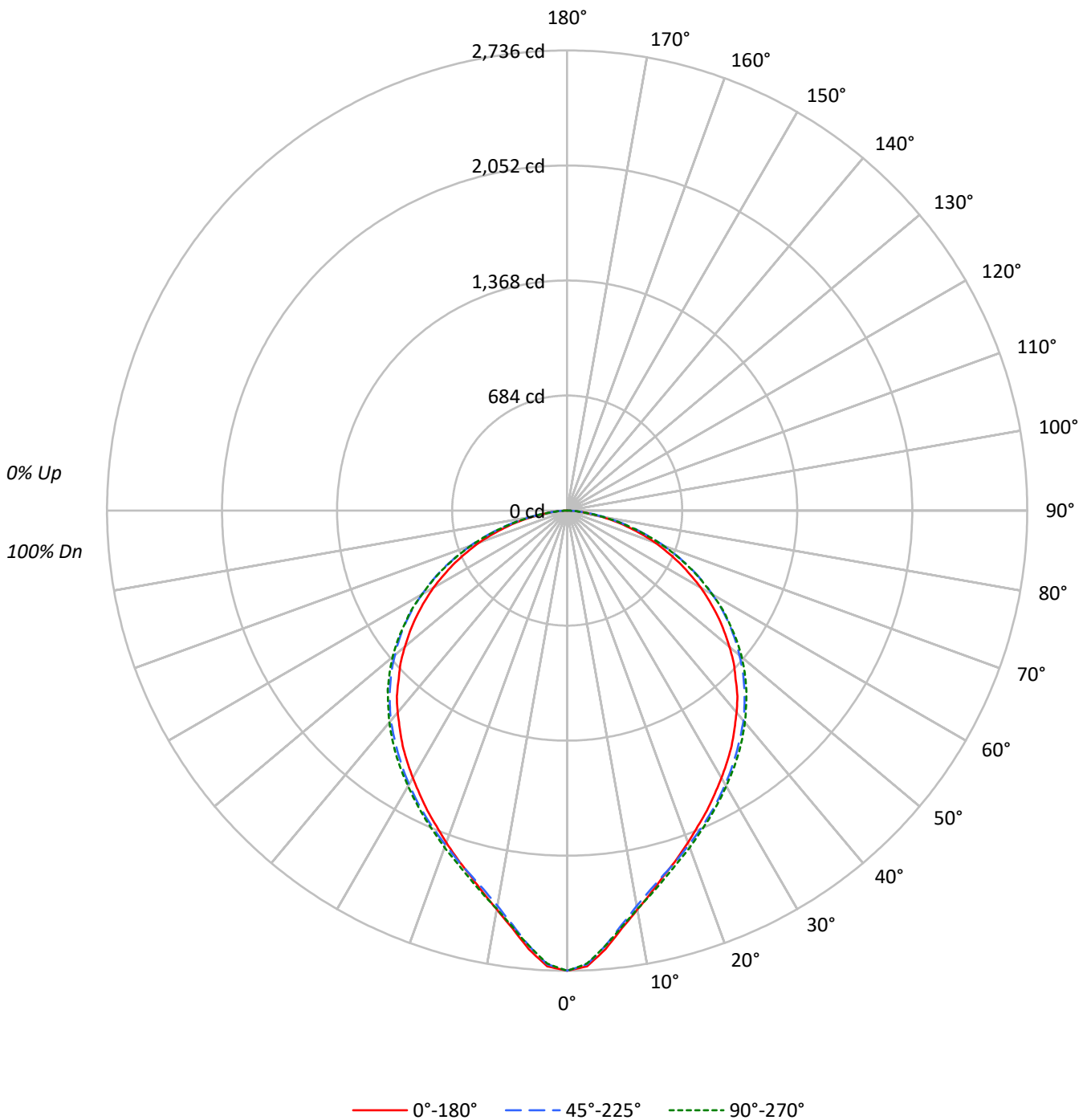
Lumens per Lamp: N/A
Luminaire Lumens: 6354.7 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	7362	7362	7362
5°	7069	7019	7019
10°	6579	6519	6569
15°	6243	6232	6292
20°	6014	6057	6104
25°	5842	5937	5972
30°	5701	5841	5877
35°	5603	5767	5825
40°	5504	5727	5775
45°	5390	5671	5739
50°	5272	5601	5675
55°	5125	5520	5542
60°	4941	5368	5357
65°	4683	5162	5128
70°	4372	4814	4755
75°	3859	4265	4222
80°	3135	3474	3305
85°	2174	2217	2130



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.7	3.8
10°-20°	633.2	10.0
20°-30°	920.8	14.5
30°-40°	1095.7	17.2
40°-50°	1137.7	17.9
50°-60°	1030.7	16.2
60°-70°	777.8	12.2
70°-80°	423.8	6.7
80°-90°	93.1	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°	1795.8	28.3
0°-40°	2891.5	45.5
0°-60°	5060.0	79.6
0°-90°	6354.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6354.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2736	2736	2736	2736	2736	
5°	2617	2611	2598	2597	2598	243
15°	2241	2235	2237	2252	2259	632
25°	1967	1984	2000	2016	2011	907
35°	1706	1726	1756	1782	1773	1066
45°	1416	1442	1490	1507	1508	1095
55°	1092	1118	1176	1185	1181	975
65°	736	757	811	809	805	727
75°	371	386	410	413	406	395
85°	70	71	72	71	69	89
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2735.8	2735.8	2735.8	2735.8	2735.8
2.5°	2711.9	2709.1	2700.2	2696.8	2696.1
5°	2616.9	2610.7	2598.4	2597.0	2598.4
7.5°	2503.4	2496.5	2484.2	2489.0	2495.2
10°	2407.7	2390.6	2385.8	2392.6	2404.2
12.5°	2322.2	2308.5	2304.4	2322.2	2330.4
15°	2240.8	2235.4	2236.8	2251.8	2258.6
17.5°	2170.5	2167.0	2175.9	2187.5	2191.0
20°	2100.0	2106.9	2115.1	2127.4	2131.5
22.5°	2031.0	2044.0	2057.7	2074.1	2068.6
25°	1967.4	1983.8	1999.6	2016.0	2011.2
27.5°	1899.7	1918.9	1940.8	1958.5	1951.7
30°	1834.8	1858.7	1879.9	1901.8	1891.5
32.5°	1770.6	1793.1	1818.4	1845.1	1833.4
35°	1705.6	1726.1	1755.5	1782.2	1773.3
37.5°	1633.8	1659.1	1692.6	1715.8	1709.7
40°	1566.8	1590.1	1630.4	1645.5	1644.1
42.5°	1499.1	1518.3	1560.7	1577.8	1575.0
45°	1416.4	1441.7	1490.2	1506.7	1508.0
47.5°	1343.3	1364.5	1416.4	1429.4	1432.1
50°	1259.2	1285.9	1337.8	1353.5	1355.6
52.5°	1176.5	1205.2	1258.5	1269.4	1271.5
55°	1092.4	1118.4	1176.5	1184.7	1181.3
57.5°	1004.2	1035.7	1089.0	1093.1	1096.5
60°	918.1	945.4	997.4	1002.8	995.3
62.5°	824.4	852.4	905.8	907.1	901.0
65°	735.5	756.7	810.7	809.4	805.3
67.5°	642.6	668.5	708.2	709.6	706.2
70°	555.7	573.5	611.8	612.5	604.3
72.5°	462.1	481.3	512.0	507.9	505.9
75°	371.2	386.2	410.2	412.9	406.1
77.5°	287.8	298.7	316.5	314.5	306.9
80°	202.3	211.2	224.2	221.5	213.3
82.5°	129.2	134.7	142.9	139.5	136.0
85°	70.4	71.1	71.8	71.1	69.0
87.5°	26.0	26.7	26.7	26.0	23.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)