

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: P488985

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-4LO-50-120-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: P488985
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-115-8)
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-A12125-LD4-4LO-50-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

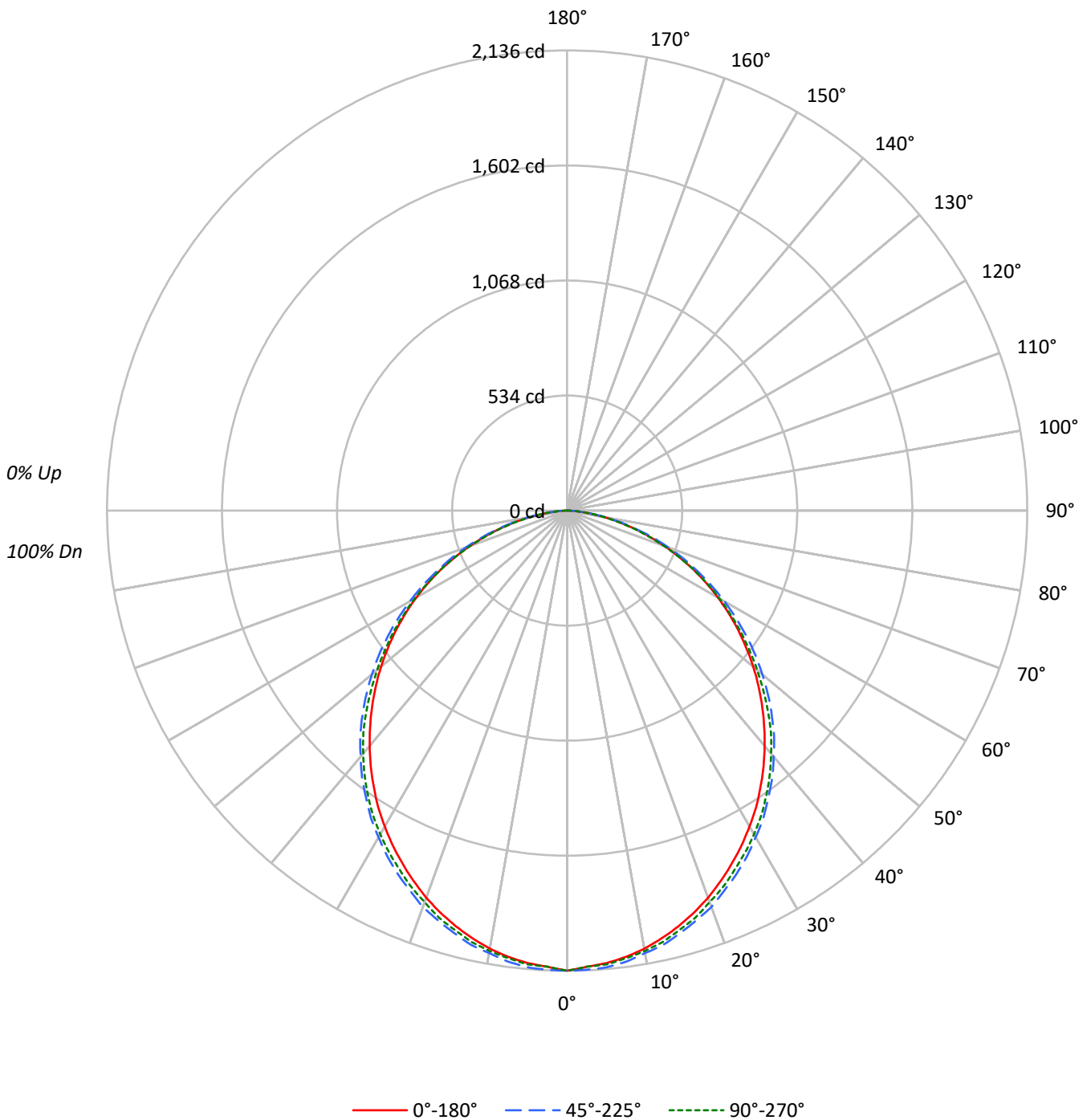
Lumens per Lamp: N/A
Luminaire Lumens: 5615.3 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 46.8
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	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	64	55	48	75	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5748	5748	5748
5°	5694	5748	5712
10°	5642	5699	5672
15°	5564	5654	5614
20°	5477	5607	5539
25°	5370	5526	5462
30°	5261	5440	5390
35°	5143	5347	5297
40°	5009	5240	5173
45°	4869	5114	5018
50°	4722	4950	4821
55°	4551	4764	4618
60°	4357	4538	4398
65°	4106	4264	4109
70°	3778	3931	3736
75°	3327	3478	3276
80°	2704	2820	2673
85°	1883	2007	1958



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.2	3.6
10°-20°	570.0	10.2
20°-30°	850.2	15.1
30°-40°	1007.5	17.9
40°-50°	1019.4	18.2
50°-60°	890.3	15.9
60°-70°	650.6	11.6
70°-80°	346.2	6.2
80°-90°	80.0	1.4
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°	1621.4	28.9
0°-40°	2628.8	46.8
0°-60°	4538.5	80.8
0°-90°	5615.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5615.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2136	2136	2136	2136	2136	
5°	2108	2112	2128	2133	2115	200
15°	1997	2011	2030	2042	2015	563
25°	1808	1831	1861	1868	1840	833
35°	1566	1590	1628	1639	1612	979
45°	1279	1302	1344	1345	1318	987
55°	970	990	1015	1001	984	867
65°	645	658	670	656	645	638
75°	320	327	334	322	315	340
85°	61	62	65	66	63	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2135.9	2135.9	2135.9	2135.9	2135.9
2.5°	2119.2	2126.1	2133.2	2136.3	2118.9
5°	2108.0	2112.0	2127.8	2132.7	2114.7
7.5°	2089.8	2095.8	2111.2	2113.4	2096.0
10°	2064.9	2075.6	2085.8	2096.9	2075.8
12.5°	2033.1	2047.5	2064.9	2066.9	2050.9
15°	1997.2	2010.6	2029.5	2041.7	2015.2
17.5°	1957.2	1970.1	1994.6	1996.8	1980.8
20°	1912.4	1928.5	1957.8	1963.0	1934.2
22.5°	1861.7	1883.3	1907.8	1912.7	1891.5
25°	1808.5	1830.8	1861.0	1867.9	1839.7
27.5°	1752.9	1774.2	1808.3	1813.2	1789.4
30°	1693.2	1713.3	1750.7	1758.9	1734.6
32.5°	1632.7	1652.7	1694.1	1701.0	1677.4
35°	1565.5	1590.0	1627.6	1638.9	1612.5
37.5°	1497.0	1520.8	1563.5	1573.7	1545.3
40°	1426.0	1449.6	1491.6	1500.1	1472.7
42.5°	1353.4	1377.0	1422.0	1423.3	1400.6
45°	1279.3	1302.0	1343.9	1345.0	1318.5
47.5°	1204.1	1227.0	1264.4	1260.2	1235.3
50°	1128.0	1149.8	1182.5	1174.1	1151.6
52.5°	1049.2	1070.4	1101.3	1087.5	1066.4
55°	970.0	989.6	1015.4	1000.7	984.3
57.5°	890.1	909.9	929.7	914.8	900.6
60°	809.6	826.9	843.2	828.0	817.1
62.5°	727.7	742.6	756.6	742.1	731.9
65°	644.9	658.0	669.6	656.2	645.3
67.5°	562.6	573.7	584.4	570.6	559.2
70°	480.2	489.8	499.6	485.3	474.9
72.5°	399.0	407.5	416.1	402.3	393.2
75°	320.0	327.3	334.5	322.2	315.1
77.5°	244.6	250.8	255.7	247.9	241.0
80°	174.5	179.1	182.0	178.9	172.5
82.5°	112.2	115.5	117.1	116.8	112.6
85°	61.0	62.1	65.0	65.6	63.4
87.5°	23.6	25.1	25.8	27.8	25.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)