

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: P488928

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-3HI-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: P488928
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-LD4-3HI-27-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

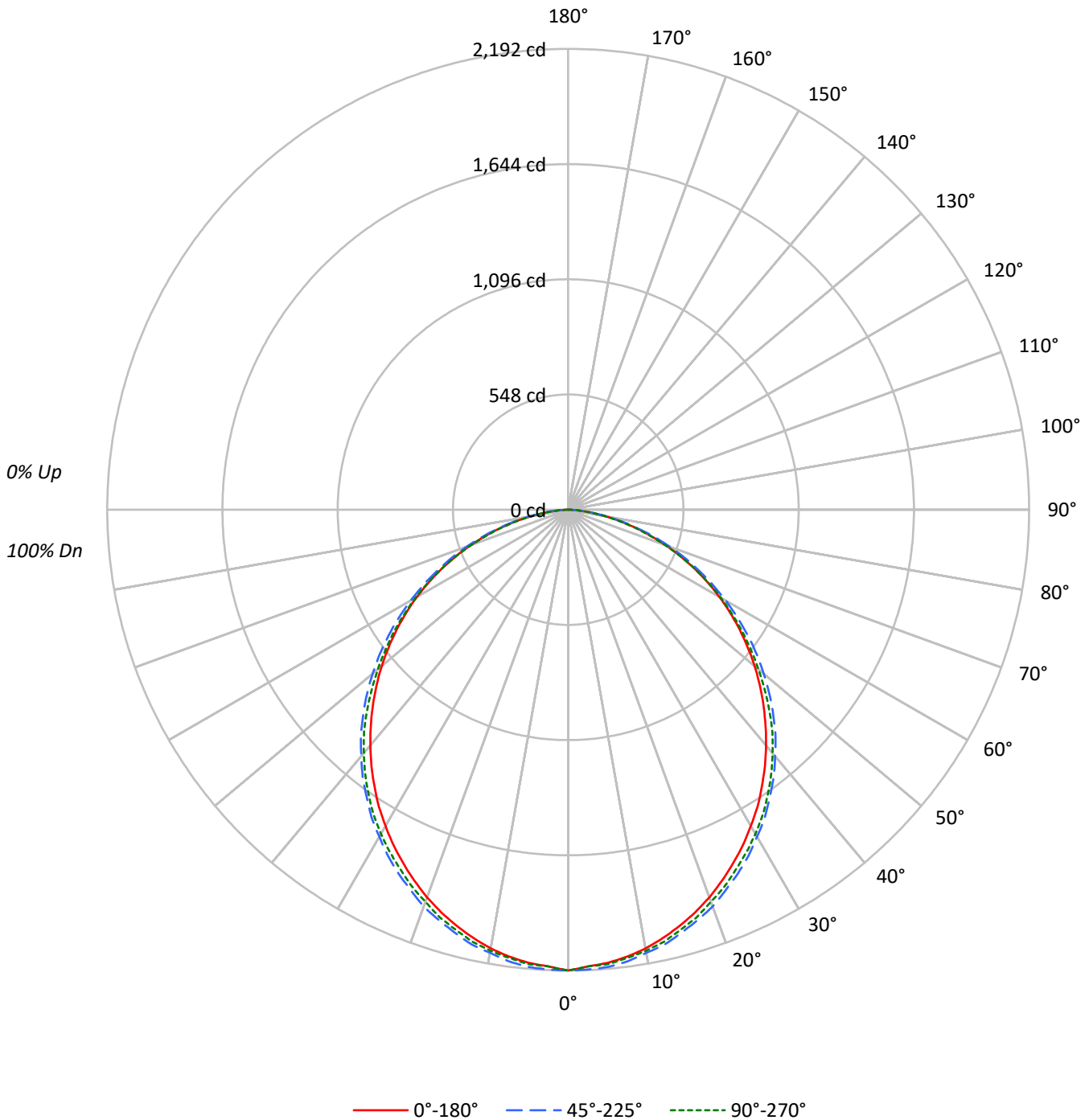
Lumens per Lamp: N/A
Luminaire Lumens: 5762.1 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 64.8
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°	5898	5898	5898
5°	5843	5898	5862
10°	5790	5848	5820
15°	5709	5802	5761
20°	5620	5753	5684
25°	5510	5670	5605
30°	5399	5582	5531
35°	5277	5486	5435
40°	5140	5377	5309
45°	4996	5248	5149
50°	4846	5080	4947
55°	4670	4889	4738
60°	4471	4656	4513
65°	4214	4375	4216
70°	3877	4033	3834
75°	3414	3568	3361
80°	2774	2895	2743
85°	1933	2059	2010



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.4	3.6
10°-20°	584.9	10.2
20°-30°	872.4	15.1
30°-40°	1033.8	17.9
40°-50°	1046.1	18.2
50°-60°	913.6	15.9
60°-70°	667.6	11.6
70°-80°	355.2	6.2
80°-90°	82.1	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°	1663.8	28.9
0°-40°	2697.6	46.8
0°-60°	4657.2	80.8
0°-90°	5762.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5762.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2192	2192	2192	2192	2192	
5°	2163	2167	2184	2188	2170	205
15°	2049	2063	2082	2095	2068	578
25°	1856	1879	1910	1917	1888	855
35°	1606	1632	1670	1682	1655	1005
45°	1313	1336	1379	1380	1353	1013
55°	995	1016	1042	1027	1010	890
65°	662	675	687	673	662	655
75°	328	336	343	331	323	349
85°	63	64	67	67	65	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2191.7	2191.7	2191.7	2191.7	2191.7
2.5°	2174.6	2181.7	2189.0	2192.2	2174.3
5°	2163.2	2167.3	2183.5	2188.5	2170.0
7.5°	2144.4	2150.6	2166.4	2168.6	2150.8
10°	2118.9	2129.8	2140.3	2151.7	2130.0
12.5°	2086.2	2101.0	2118.9	2120.9	2104.5
15°	2049.4	2063.1	2082.5	2095.1	2067.9
17.5°	2008.3	2021.6	2046.7	2049.0	2032.5
20°	1962.4	1978.9	2009.0	2014.3	1984.8
22.5°	1910.4	1932.5	1957.6	1962.7	1941.0
25°	1855.8	1878.6	1909.7	1916.8	1887.8
27.5°	1798.7	1820.6	1855.6	1860.6	1836.2
30°	1737.5	1758.1	1796.4	1804.9	1780.0
32.5°	1675.4	1696.0	1738.4	1745.5	1721.3
35°	1606.4	1631.6	1670.1	1681.8	1654.6
37.5°	1536.1	1560.5	1604.4	1614.9	1585.7
40°	1463.3	1487.5	1530.6	1539.3	1511.2
42.5°	1388.8	1413.0	1459.2	1460.5	1437.2
45°	1312.8	1336.1	1379.0	1380.1	1353.0
47.5°	1235.6	1259.1	1297.5	1293.1	1267.6
50°	1157.5	1179.9	1213.4	1204.8	1181.7
52.5°	1076.7	1098.4	1130.1	1115.9	1094.3
55°	995.4	1015.5	1042.0	1026.9	1010.0
57.5°	913.4	933.7	954.0	938.7	924.1
60°	830.7	848.5	865.2	849.7	838.5
62.5°	746.7	762.0	776.4	761.5	751.0
65°	661.8	675.2	687.1	673.4	662.2
67.5°	577.3	588.7	599.6	585.5	573.8
70°	492.8	502.6	512.6	498.0	487.3
72.5°	409.4	418.1	427.0	412.9	403.5
75°	328.4	335.9	343.2	330.6	323.3
77.5°	251.0	257.3	262.4	254.4	247.3
80°	179.0	183.8	186.8	183.6	177.0
82.5°	115.1	118.5	120.1	119.9	115.5
85°	62.6	63.7	66.7	67.4	65.1
87.5°	24.2	25.8	26.5	28.5	26.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)