

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: P488961

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-3STD-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: P488961
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-LD4-3STD-50-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

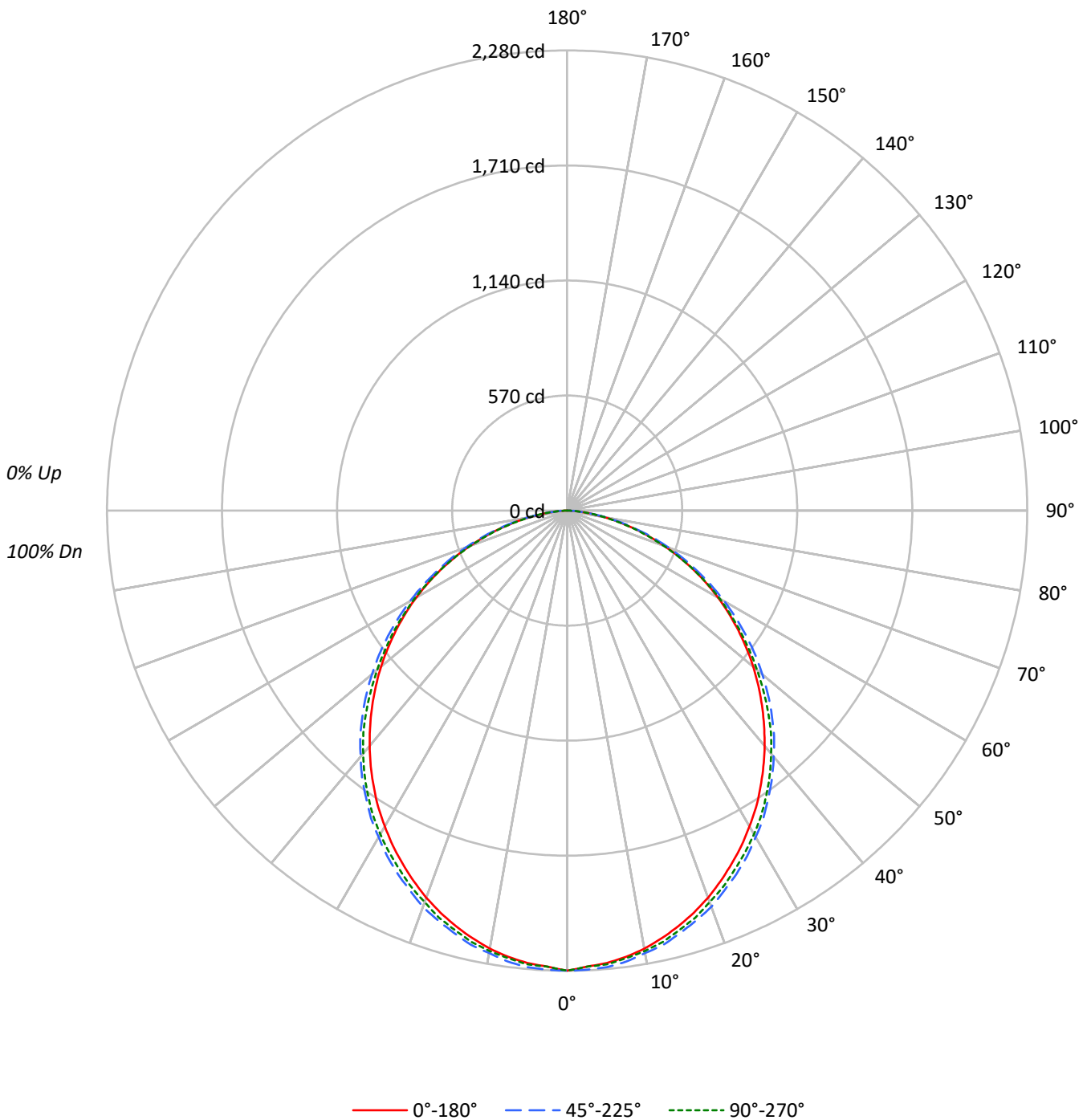
Lumens per Lamp: N/A
Luminaire Lumens: 5993.2 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
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	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°	6134	6134	6134
5°	6078	6135	6097
10°	6022	6083	6054
15°	5938	6035	5992
20°	5845	5984	5912
25°	5731	5898	5830
30°	5615	5806	5753
35°	5489	5707	5654
40°	5347	5592	5521
45°	5196	5458	5355
50°	5040	5284	5146
55°	4857	5084	4929
60°	4651	4843	4694
65°	4383	4551	4386
70°	4032	4195	3987
75°	3551	3712	3497
80°	2885	3011	2853
85°	2010	2143	2090



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.7	3.6
10°-20°	608.4	10.2
20°-30°	907.4	15.1
30°-40°	1075.3	17.9
40°-50°	1088.0	18.2
50°-60°	950.2	15.9
60°-70°	694.4	11.6
70°-80°	369.5	6.2
80°-90°	85.4	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°	1730.5	28.9
0°-40°	2805.7	46.8
0°-60°	4844.0	80.8
0°-90°	5993.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5993.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2280	2280	2280	2280	2280	
5°	2250	2254	2271	2276	2257	213
15°	2132	2146	2166	2179	2151	601
25°	1930	1954	1986	1994	1964	889
35°	1671	1697	1737	1749	1721	1045
45°	1365	1390	1434	1436	1407	1053
55°	1035	1056	1084	1068	1050	925
65°	688	702	715	700	689	681
75°	342	349	357	344	336	363
85°	65	66	69	70	68	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2279.6	2279.6	2279.6	2279.6	2279.6
2.5°	2261.8	2269.1	2276.7	2280.1	2261.5
5°	2249.9	2254.2	2271.0	2276.3	2257.0
7.5°	2230.4	2236.8	2253.2	2255.6	2237.1
10°	2203.8	2215.2	2226.2	2238.0	2215.5
12.5°	2169.9	2185.3	2203.8	2206.0	2188.9
15°	2131.6	2145.9	2166.1	2179.1	2150.9
17.5°	2088.9	2102.7	2128.8	2131.2	2114.1
20°	2041.1	2058.2	2089.6	2095.1	2064.4
22.5°	1987.0	2010.0	2036.2	2041.4	2018.8
25°	1930.2	1954.0	1986.3	1993.6	1963.5
27.5°	1870.8	1893.6	1930.0	1935.2	1909.8
30°	1807.2	1828.6	1868.5	1877.3	1851.4
32.5°	1742.6	1764.0	1808.1	1815.5	1790.3
35°	1670.9	1697.0	1737.1	1749.2	1721.0
37.5°	1597.7	1623.1	1668.7	1679.7	1649.3
40°	1522.0	1547.1	1592.0	1601.0	1571.8
42.5°	1444.5	1469.7	1517.7	1519.1	1494.9
45°	1365.4	1389.7	1434.3	1435.5	1407.2
47.5°	1285.2	1309.6	1349.5	1345.0	1318.4
50°	1203.9	1227.2	1262.1	1253.1	1229.1
52.5°	1119.8	1142.4	1175.4	1160.7	1138.1
55°	1035.3	1056.2	1083.7	1068.1	1050.5
57.5°	950.0	971.2	992.3	976.4	961.2
60°	864.1	882.6	899.9	883.8	872.1
62.5°	776.7	792.6	807.5	792.1	781.2
65°	688.3	702.3	714.7	700.4	688.8
67.5°	600.4	612.3	623.7	609.0	596.9
70°	512.5	522.8	533.2	518.0	506.8
72.5°	425.9	434.9	444.1	429.4	419.7
75°	341.5	349.4	357.0	343.9	336.3
77.5°	261.0	267.7	272.9	264.6	257.2
80°	186.2	191.2	194.3	191.0	184.1
82.5°	119.7	123.3	124.9	124.7	120.2
85°	65.1	66.3	69.4	70.1	67.7
87.5°	25.2	26.8	27.6	29.7	27.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)