

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: P489323

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-4HI-20-120-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: P489323
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-LD4-4HI-20-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

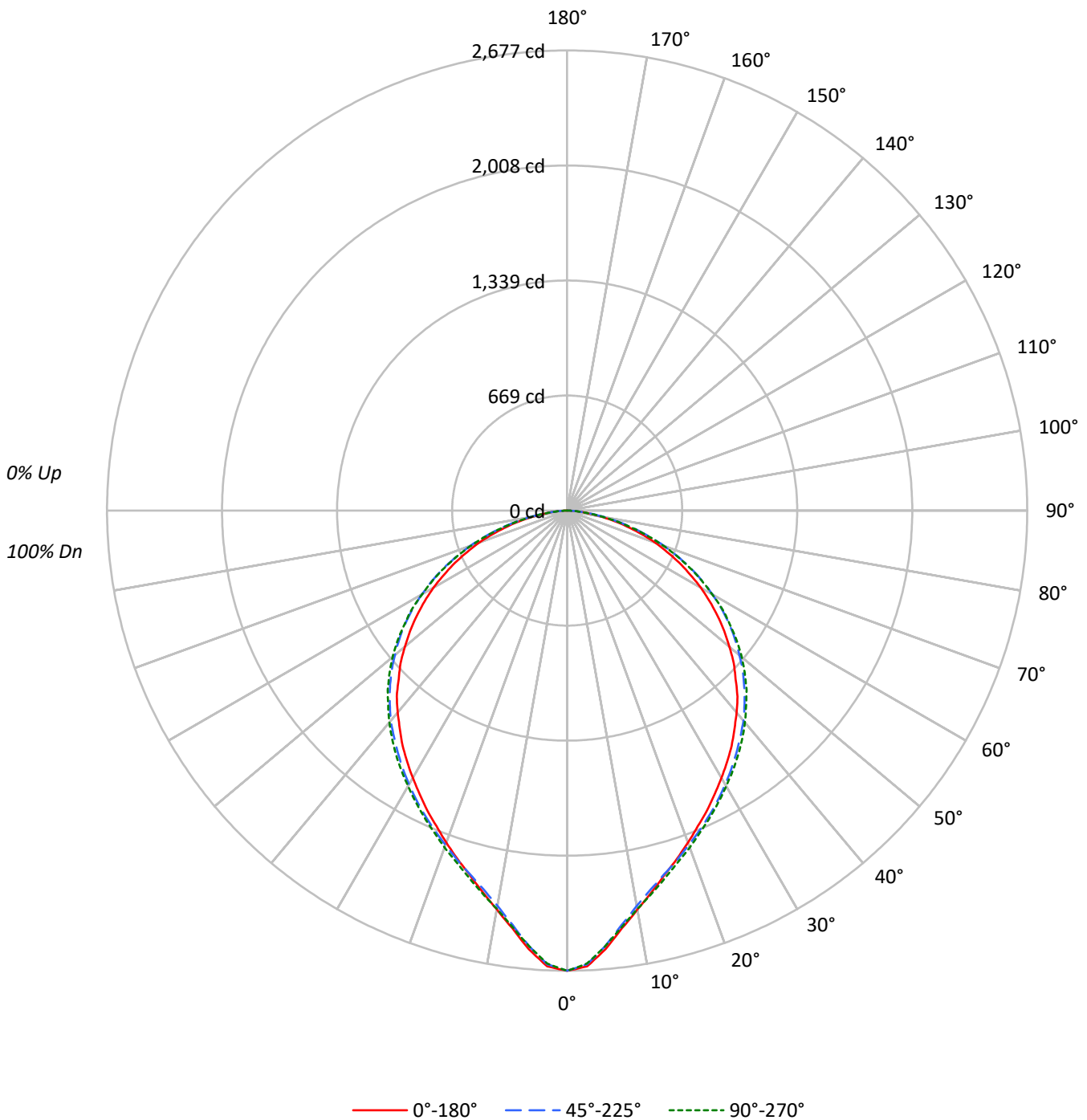
Lumens per Lamp: N/A
Luminaire Lumens: 6218.3 lumens
Efficiency: N/A
Efficacy: 72.0 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 86.4
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	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84					84			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70					70			
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59					59			
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51					51			
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44					44			
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38					38			
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34					34			
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30					30			
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27					27			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7204	7204	7204
5°	6917	6868	6868
10°	6438	6379	6428
15°	6109	6098	6157
20°	5885	5927	5973
25°	5716	5809	5843
30°	5579	5716	5751
35°	5483	5643	5700
40°	5386	5604	5651
45°	5275	5550	5616
50°	5159	5480	5553
55°	5015	5401	5423
60°	4835	5253	5242
65°	4583	5051	5018
70°	4279	4711	4653
75°	3776	4173	4131
80°	3068	3400	3234
85°	2127	2167	2087



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.6	3.8
10°-20°	619.6	10.0
20°-30°	901.0	14.5
30°-40°	1072.2	17.2
40°-50°	1113.3	17.9
50°-60°	1008.6	16.2
60°-70°	761.1	12.2
70°-80°	414.7	6.7
80°-90°	91.1	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°	1757.2	28.3
0°-40°	2829.4	45.5
0°-60°	4951.4	79.6
0°-90°	6218.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6218.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2677	2677	2677	2677	2677	
5°	2561	2555	2543	2541	2543	238
15°	2193	2187	2189	2204	2210	619
25°	1925	1941	1957	1973	1968	887
35°	1669	1689	1718	1744	1735	1043
45°	1386	1411	1458	1474	1476	1071
55°	1069	1094	1151	1159	1156	954
65°	720	740	793	792	788	712
75°	363	378	401	404	397	387
85°	69	70	70	70	68	87
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2677.1	2677.1	2677.1	2677.1	2677.1
2.5°	2653.7	2651.0	2642.3	2638.9	2638.2
5°	2560.7	2554.7	2542.6	2541.3	2542.6
7.5°	2449.6	2442.9	2430.9	2435.6	2441.6
10°	2356.0	2339.3	2334.5	2341.3	2352.6
12.5°	2272.3	2259.0	2254.9	2272.3	2280.4
15°	2192.7	2187.4	2188.8	2203.5	2210.1
17.5°	2123.9	2120.5	2129.2	2140.6	2143.9
20°	2055.0	2061.7	2069.7	2081.7	2085.7
22.5°	1987.4	2000.1	2013.5	2029.5	2024.2
25°	1925.2	1941.2	1956.6	1972.7	1968.0
27.5°	1859.0	1877.7	1899.1	1916.5	1909.8
30°	1795.4	1818.8	1839.6	1860.9	1850.9
32.5°	1732.6	1754.6	1779.4	1805.5	1794.1
35°	1669.0	1689.1	1717.8	1743.9	1735.2
37.5°	1598.8	1623.5	1656.2	1679.0	1673.0
40°	1533.2	1555.9	1595.4	1610.1	1608.8
42.5°	1467.0	1485.7	1527.2	1543.9	1541.2
45°	1386.0	1410.8	1458.3	1474.4	1475.7
47.5°	1314.5	1335.2	1386.0	1398.7	1401.4
50°	1232.2	1258.3	1309.1	1324.5	1326.5
52.5°	1151.2	1179.3	1231.5	1242.2	1244.2
55°	1068.9	1094.3	1151.2	1159.3	1155.9
57.5°	982.7	1013.4	1065.6	1069.6	1073.0
60°	898.3	925.1	976.0	981.3	974.0
62.5°	806.7	834.2	886.4	887.7	881.6
65°	719.7	740.5	793.3	792.0	788.0
67.5°	628.8	654.2	693.0	694.3	691.0
70°	543.8	561.2	598.7	599.4	591.4
72.5°	452.2	470.9	501.0	497.0	495.0
75°	363.2	378.0	401.4	404.1	397.3
77.5°	281.6	292.3	309.7	307.7	300.3
80°	198.0	206.7	219.4	216.8	208.7
82.5°	126.4	131.8	139.8	136.5	133.1
85°	68.9	69.5	70.2	69.5	67.6
87.5°	25.4	26.1	26.1	25.4	23.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)