

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: P489844

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-3LO-35-120-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: P489844
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-24-4-INS-P12125-LD4-3LO-35-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

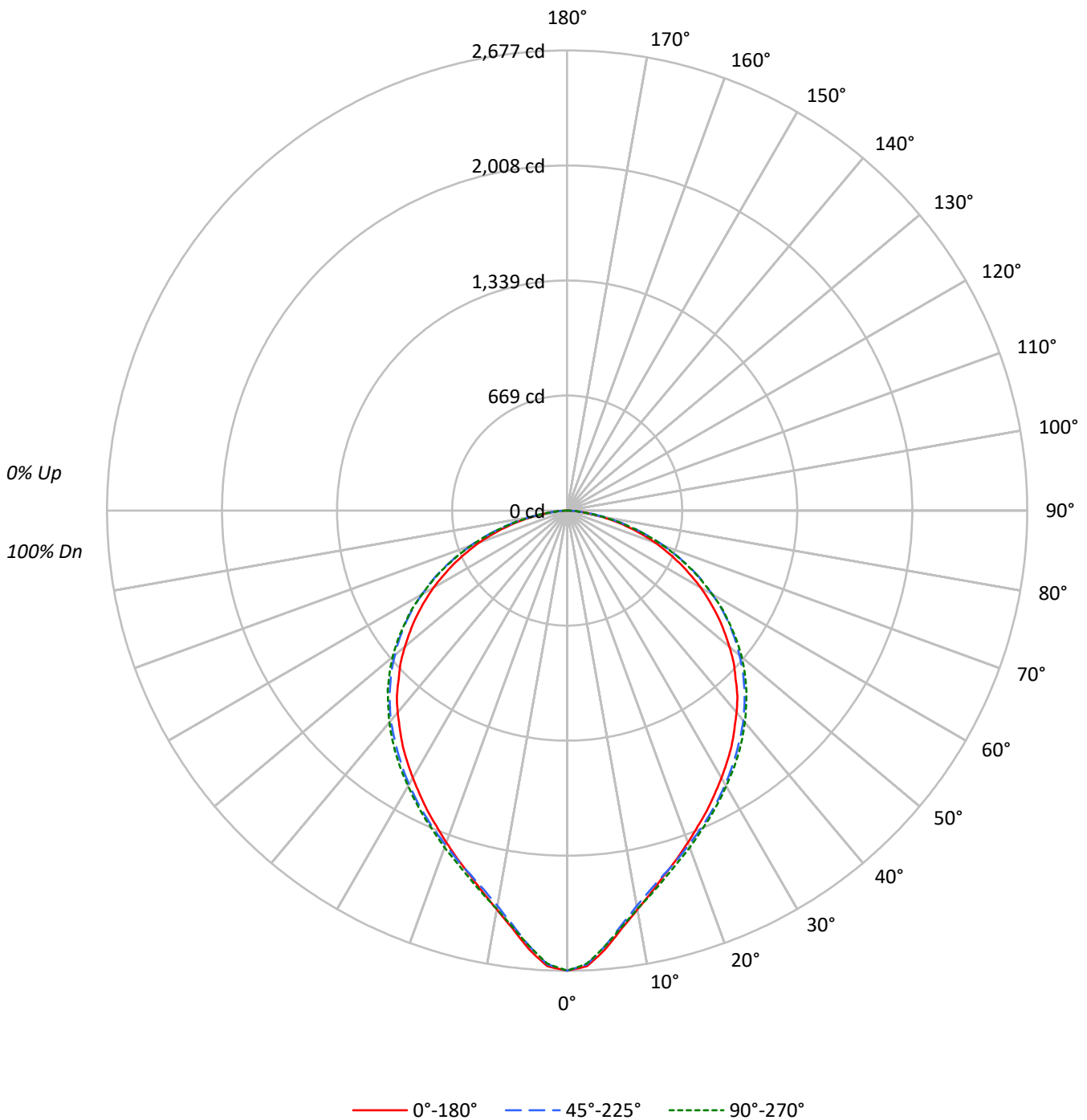
Lumens per Lamp: N/A
Luminaire Lumens: 6217.3 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 70.2
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°	3601	3601	3601
5°	3458	3434	3434
10°	3218	3189	3214
15°	3054	3048	3078
20°	2942	2963	2986
25°	2858	2904	2921
30°	2789	2858	2875
35°	2741	2821	2850
40°	2693	2802	2825
45°	2637	2774	2807
50°	2579	2740	2776
55°	2507	2700	2711
60°	2417	2626	2620
65°	2291	2525	2508
70°	2139	2355	2326
75°	1888	2086	2065
80°	1534	1700	1616
85°	1064	1084	1042



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.5	3.8
10°-20°	619.5	10.0
20°-30°	900.9	14.5
30°-40°	1072.0	17.2
40°-50°	1113.2	17.9
50°-60°	1008.5	16.2
60°-70°	761.0	12.2
70°-80°	414.6	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°	1756.9	28.3
0°-40°	2829.0	45.5
0°-60°	4950.6	79.6
0°-90°	6217.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6217.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2677	2677	2677	2677	2677	
5°	2560	2554	2542	2541	2542	238
15°	2192	2187	2188	2203	2210	619
25°	1925	1941	1956	1972	1968	887
35°	1669	1689	1718	1744	1735	1043
45°	1386	1411	1458	1474	1475	1071
55°	1069	1094	1151	1159	1156	954
65°	720	740	793	792	788	711
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°	2676.6	2676.6	2676.6	2676.6	2676.6
2.5°	2653.2	2650.6	2641.9	2638.5	2637.8
5°	2560.3	2554.2	2542.2	2540.9	2542.2
7.5°	2449.2	2442.5	2430.5	2435.2	2441.2
10°	2355.6	2338.9	2334.2	2340.9	2352.2
12.5°	2272.0	2258.6	2254.6	2272.0	2280.0
15°	2192.4	2187.0	2188.4	2203.1	2209.8
17.5°	2123.5	2120.2	2128.9	2140.2	2143.6
20°	2054.6	2061.3	2069.4	2081.4	2085.4
22.5°	1987.1	1999.8	2013.2	2029.2	2023.9
25°	1924.9	1940.9	1956.3	1972.4	1967.7
27.5°	1858.7	1877.4	1898.8	1916.2	1909.5
30°	1795.1	1818.5	1839.3	1860.7	1850.6
32.5°	1732.3	1754.3	1779.1	1805.2	1793.8
35°	1668.7	1688.8	1717.6	1743.6	1735.0
37.5°	1598.5	1623.2	1656.0	1678.7	1672.8
40°	1533.0	1555.7	1595.2	1609.9	1608.5
42.5°	1466.7	1485.5	1526.9	1543.6	1541.0
45°	1385.8	1410.6	1458.0	1474.1	1475.4
47.5°	1314.2	1335.0	1385.8	1398.5	1401.2
50°	1232.0	1258.1	1308.9	1324.3	1326.3
52.5°	1151.0	1179.1	1231.3	1242.0	1244.0
55°	1068.8	1094.2	1151.0	1159.1	1155.7
57.5°	982.5	1013.3	1065.5	1069.4	1072.8
60°	898.2	925.0	975.8	981.2	973.8
62.5°	806.6	834.0	886.2	887.5	881.5
65°	719.6	740.4	793.2	791.9	787.9
67.5°	628.7	654.1	692.9	694.2	690.9
70°	543.7	561.1	598.6	599.3	591.3
72.5°	452.1	470.8	500.9	496.9	495.0
75°	363.2	377.9	401.3	404.0	397.3
77.5°	281.6	292.3	309.7	307.7	300.3
80°	198.0	206.7	219.4	216.7	208.6
82.5°	126.4	131.8	139.8	136.4	133.1
85°	68.9	69.5	70.2	69.5	67.5
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)