

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: P489874

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-4LO-20-120-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: P489874
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-LD4-4LO-20-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

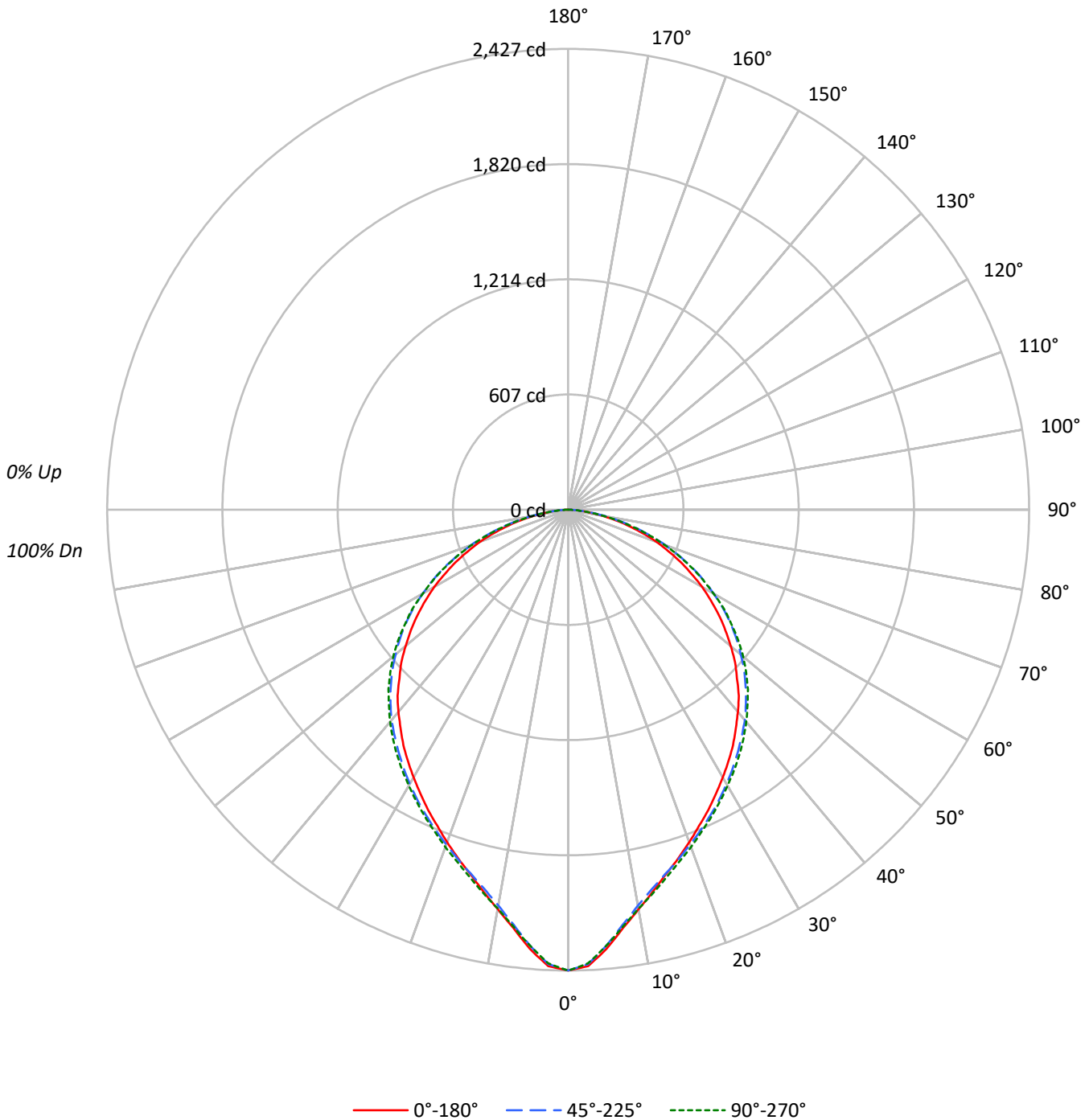
Lumens per Lamp: N/A
Luminaire Lumens: 5637.0 lumens
Efficiency: N/A
Efficacy: 60.2 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 93.6
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

TEST NUMBER: P489874

CATALOG NUMBER: CLM-24-4-INS-P12125-LD4-4LO-20-120-EDD-90

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°	3265	3265	3265
5°	3135	3113	3113
10°	2918	2891	2914
15°	2769	2764	2791
20°	2667	2686	2707
25°	2591	2633	2648
30°	2529	2591	2607
35°	2485	2558	2584
40°	2441	2540	2562
45°	2391	2515	2545
50°	2338	2484	2517
55°	2273	2448	2458
60°	2192	2381	2376
65°	2077	2290	2274
70°	1939	2135	2109
75°	1712	1892	1873
80°	1391	1541	1466
85°	965	983	945



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.4	3.8
10°-20°	561.7	10.0
20°-30°	816.8	14.5
30°-40°	972.0	17.2
40°-50°	1009.3	17.9
50°-60°	914.3	16.2
60°-70°	689.9	12.2
70°-80°	375.9	6.7
80°-90°	82.6	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°	1592.9	28.3
0°-40°	2564.9	45.5
0°-60°	4488.5	79.6
0°-90°	5637.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5637.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2427	2427	2427	2427	2427	
5°	2321	2316	2305	2304	2305	215
15°	1988	1983	1984	1998	2004	561
25°	1745	1760	1774	1788	1784	804
35°	1513	1531	1557	1581	1573	946
45°	1256	1279	1322	1336	1338	971
55°	969	992	1044	1051	1048	865
65°	652	671	719	718	714	645
75°	329	343	364	366	360	351
85°	62	63	64	63	61	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2426.8	2426.8	2426.8	2426.8	2426.8
2.5°	2405.6	2403.2	2395.3	2392.2	2391.6
5°	2321.3	2315.8	2304.9	2303.7	2304.9
7.5°	2220.6	2214.6	2203.7	2207.9	2213.4
10°	2135.7	2120.6	2116.3	2122.4	2132.7
12.5°	2059.9	2047.8	2044.1	2059.9	2067.2
15°	1987.8	1982.9	1984.1	1997.5	2003.5
17.5°	1925.3	1922.3	1930.2	1940.5	1943.5
20°	1862.9	1868.9	1876.2	1887.1	1890.7
22.5°	1801.6	1813.1	1825.3	1839.8	1835.0
25°	1745.2	1759.8	1773.7	1788.3	1784.0
27.5°	1685.2	1702.1	1721.6	1737.3	1731.3
30°	1627.6	1648.8	1667.6	1687.0	1677.9
32.5°	1570.6	1590.6	1613.0	1636.7	1626.4
35°	1513.0	1531.2	1557.2	1580.9	1573.0
37.5°	1449.3	1471.7	1501.4	1522.0	1516.6
40°	1389.9	1410.5	1446.3	1459.6	1458.4
42.5°	1329.8	1346.8	1384.4	1399.6	1397.1
45°	1256.5	1278.9	1321.9	1336.5	1337.7
47.5°	1191.6	1210.4	1256.5	1268.0	1270.4
50°	1117.0	1140.7	1186.7	1200.7	1202.5
52.5°	1043.6	1069.1	1116.4	1126.1	1127.9
55°	969.0	992.0	1043.6	1050.9	1047.9
57.5°	890.8	918.7	966.0	969.6	972.7
60°	814.4	838.6	884.7	889.6	882.9
62.5°	731.3	756.2	803.5	804.7	799.2
65°	652.5	671.3	719.2	718.0	714.3
67.5°	570.0	593.0	628.2	629.4	626.4
70°	493.0	508.8	542.7	543.3	536.1
72.5°	409.9	426.9	454.2	450.6	448.8
75°	329.3	342.6	363.9	366.3	360.2
77.5°	255.3	265.0	280.8	279.0	272.3
80°	179.5	187.4	198.9	196.5	189.2
82.5°	114.6	119.5	126.8	123.7	120.7
85°	62.5	63.0	63.7	63.0	61.2
87.5°	23.0	23.7	23.7	23.0	21.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)