

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: P489324

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-4HI-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: P489324
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-27-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

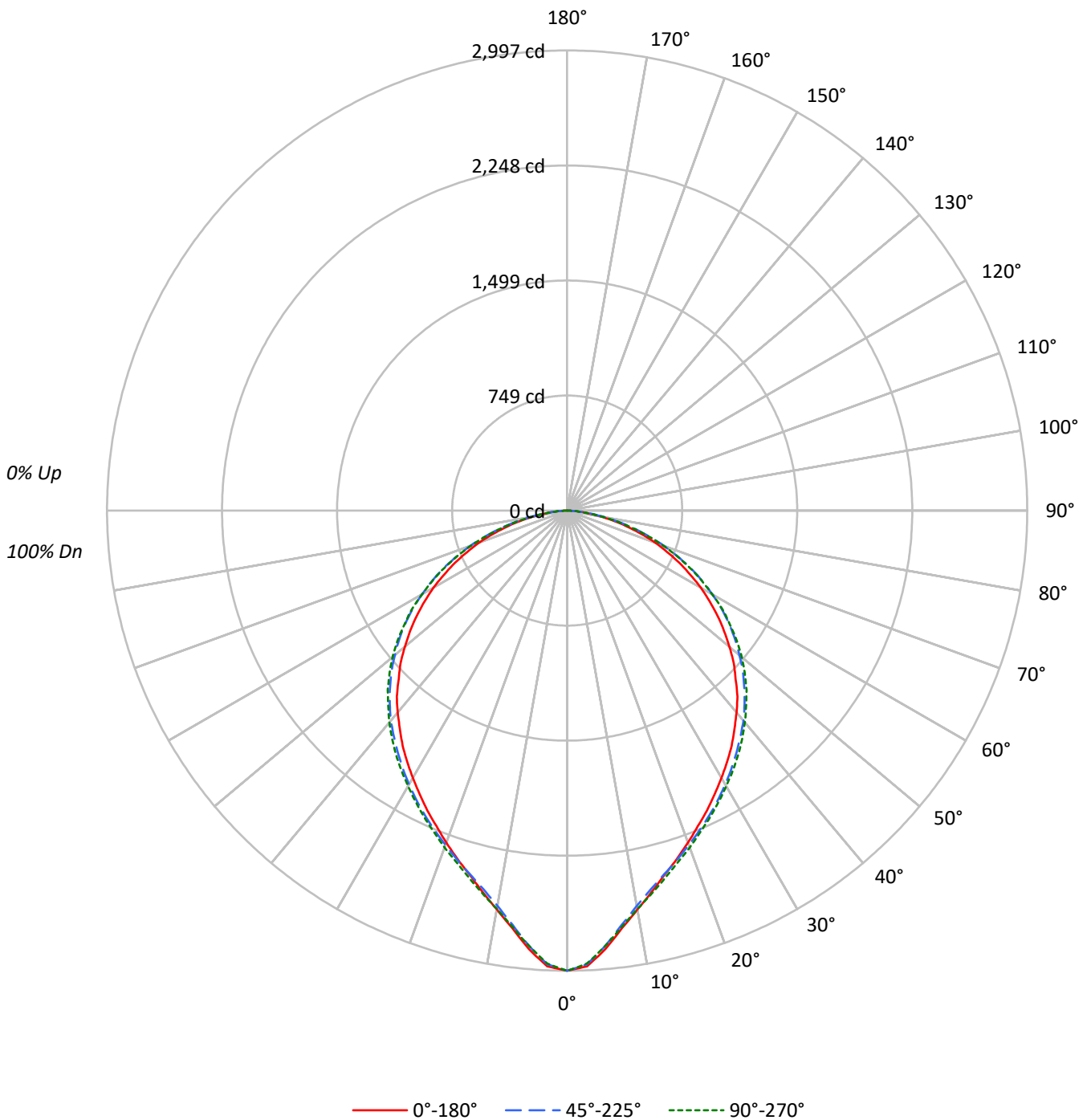
Lumens per Lamp: N/A
Luminaire Lumens: 6961.0 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8064	8064	8064
5°	7743	7689	7689
10°	7207	7141	7196
15°	6838	6826	6893
20°	6588	6635	6686
25°	6399	6503	6541
30°	6245	6399	6438
35°	6138	6317	6381
40°	6029	6274	6326
45°	5905	6212	6287
50°	5774	6135	6216
55°	5614	6046	6071
60°	5412	5880	5868
65°	5130	5655	5617
70°	4790	5273	5209
75°	4227	4671	4625
80°	3434	3806	3620
85°	2381	2427	2334



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.8	3.8
10°-20°	693.6	10.0
20°-30°	1008.7	14.5
30°-40°	1200.3	17.2
40°-50°	1246.3	17.9
50°-60°	1129.1	16.2
60°-70°	852.0	12.2
70°-80°	464.2	6.7
80°-90°	102.0	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°	1967.1	28.3
0°-40°	3167.4	45.5
0°-60°	5542.8	79.6
0°-90°	6961.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6961.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2997	2997	2997	2997	2997	
5°	2866	2860	2846	2845	2846	266
15°	2455	2449	2450	2467	2474	693
25°	2155	2173	2190	2208	2203	993
35°	1868	1891	1923	1952	1942	1168
45°	1552	1579	1632	1650	1652	1199
55°	1197	1225	1289	1298	1294	1068
65°	806	829	888	887	882	797
75°	407	423	449	452	445	433
85°	77	78	79	78	76	97
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2996.8	2996.8	2996.8	2996.8	2996.8
2.5°	2970.6	2967.6	2957.9	2954.1	2953.3
5°	2866.5	2859.8	2846.3	2844.8	2846.3
7.5°	2742.2	2734.7	2721.3	2726.5	2733.2
10°	2637.4	2618.7	2613.4	2620.9	2633.6
12.5°	2543.7	2528.8	2524.3	2543.7	2552.8
15°	2454.6	2448.6	2450.2	2466.7	2474.1
17.5°	2377.5	2373.8	2383.5	2396.3	2400.0
20°	2300.4	2307.9	2316.9	2330.4	2334.8
22.5°	2224.8	2239.0	2254.0	2271.9	2266.0
25°	2155.1	2173.1	2190.3	2208.3	2203.1
27.5°	2081.0	2101.9	2125.9	2145.4	2137.9
30°	2009.8	2036.1	2059.3	2083.2	2072.0
32.5°	1939.5	1964.2	1991.9	2021.1	2008.4
35°	1868.3	1890.8	1923.0	1952.2	1942.5
37.5°	1789.7	1817.4	1854.1	1879.5	1872.8
40°	1716.3	1741.8	1786.0	1802.4	1800.9
42.5°	1642.2	1663.2	1709.6	1728.3	1725.3
45°	1551.6	1579.3	1632.4	1650.4	1651.9
47.5°	1471.5	1494.7	1551.6	1565.8	1568.8
50°	1379.3	1408.6	1465.5	1482.7	1484.9
52.5°	1288.7	1320.2	1378.6	1390.6	1392.8
55°	1196.6	1225.1	1288.7	1297.7	1294.0
57.5°	1100.0	1134.5	1192.9	1197.4	1201.1
60°	1005.6	1035.6	1092.5	1098.5	1090.3
62.5°	903.1	933.8	992.2	993.7	986.9
65°	805.7	828.9	888.1	886.6	882.1
67.5°	703.9	732.3	775.8	777.3	773.6
70°	608.8	628.2	670.2	671.0	662.0
72.5°	506.2	527.2	560.8	556.4	554.2
75°	406.6	423.1	449.3	452.3	444.8
77.5°	315.3	327.2	346.7	344.5	336.2
80°	221.6	231.4	245.6	242.6	233.6
82.5°	141.5	147.5	156.5	152.8	149.0
85°	77.1	77.8	78.6	77.8	75.6
87.5°	28.5	29.2	29.2	28.5	26.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)