

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: P489820

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-2STD-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: P489820
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-LD4-2STD-35-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

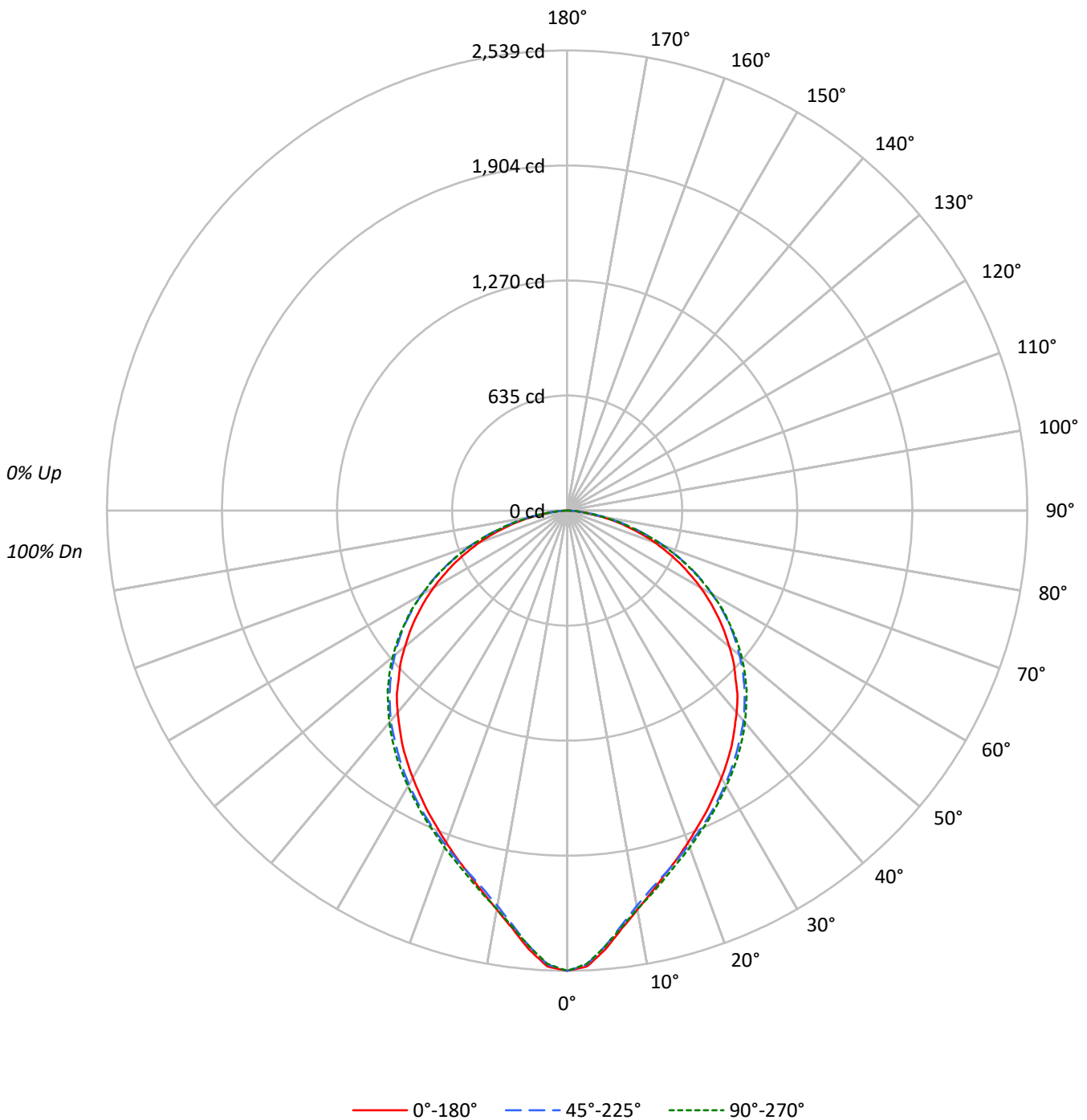
Lumens per Lamp: N/A
Luminaire Lumens: 5898.4 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
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

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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°	3417	3417	3417
5°	3281	3257	3257
10°	3053	3025	3049
15°	2897	2892	2920
20°	2791	2811	2833
25°	2711	2755	2771
30°	2646	2711	2728
35°	2600	2677	2704
40°	2554	2658	2680
45°	2502	2632	2663
50°	2447	2599	2634
55°	2378	2562	2572
60°	2293	2491	2486
65°	2174	2396	2379
70°	2029	2234	2207
75°	1791	1979	1959
80°	1455	1612	1533
85°	1010	1028	990



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.4	3.8
10°-20°	587.7	10.0
20°-30°	854.7	14.5
30°-40°	1017.1	17.2
40°-50°	1056.1	17.9
50°-60°	956.7	16.2
60°-70°	721.9	12.2
70°-80°	393.4	6.7
80°-90°	86.4	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°	1666.8	28.3
0°-40°	2683.9	45.5
0°-60°	4696.6	79.6
0°-90°	5898.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5898.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2539	2539	2539	2539	2539	
5°	2429	2423	2412	2411	2412	225
15°	2080	2075	2076	2090	2096	587
25°	1826	1841	1856	1871	1867	841
35°	1583	1602	1630	1654	1646	990
45°	1315	1338	1383	1398	1400	1016
55°	1014	1038	1092	1100	1096	905
65°	683	702	752	751	747	675
75°	344	358	381	383	377	367
85°	65	66	67	66	64	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2539.4	2539.4	2539.4	2539.4	2539.4
2.5°	2517.1	2514.6	2506.3	2503.2	2502.5
5°	2428.9	2423.2	2411.8	2410.6	2411.8
7.5°	2323.6	2317.2	2305.9	2310.3	2316.0
10°	2234.8	2218.9	2214.4	2220.8	2231.6
12.5°	2155.4	2142.8	2138.9	2155.4	2163.1
15°	2079.9	2074.9	2076.2	2090.1	2096.4
17.5°	2014.6	2011.4	2019.7	2030.5	2033.7
20°	1949.2	1955.6	1963.2	1974.6	1978.4
22.5°	1885.2	1897.2	1909.9	1925.1	1920.1
25°	1826.2	1841.4	1856.0	1871.2	1866.8
27.5°	1763.3	1781.1	1801.4	1817.9	1811.5
30°	1703.0	1725.2	1744.9	1765.2	1755.7
32.5°	1643.4	1664.4	1687.8	1712.6	1701.8
35°	1583.1	1602.2	1629.5	1654.2	1646.0
37.5°	1516.5	1540.0	1571.0	1592.6	1587.0
40°	1454.3	1475.9	1513.3	1527.3	1526.0
42.5°	1391.5	1409.3	1448.6	1464.5	1461.9
45°	1314.7	1338.2	1383.2	1398.5	1399.7
47.5°	1246.8	1266.5	1314.7	1326.8	1329.3
50°	1168.8	1193.5	1241.8	1256.3	1258.3
52.5°	1092.0	1118.6	1168.1	1178.3	1180.2
55°	1013.9	1038.0	1092.0	1099.6	1096.5
57.5°	932.1	961.3	1010.8	1014.6	1017.8
60°	852.1	877.5	925.8	930.8	923.9
62.5°	765.2	791.2	840.8	842.0	836.3
65°	682.7	702.4	752.5	751.3	747.4
67.5°	596.4	620.5	657.4	658.6	655.5
70°	515.8	532.3	567.9	568.5	560.9
72.5°	429.0	446.7	475.2	471.5	469.6
75°	344.5	358.5	380.7	383.3	376.9
77.5°	267.1	277.3	293.8	291.9	284.9
80°	187.8	196.1	208.1	205.6	197.9
82.5°	119.9	125.0	132.6	129.4	126.3
85°	65.4	66.0	66.6	66.0	64.1
87.5°	24.1	24.8	24.8	24.1	22.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)