

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: P488839

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-3LO-40-120-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: P488839
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-12-4-INS-P12125-LD4-3LO-40-120-EDD
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

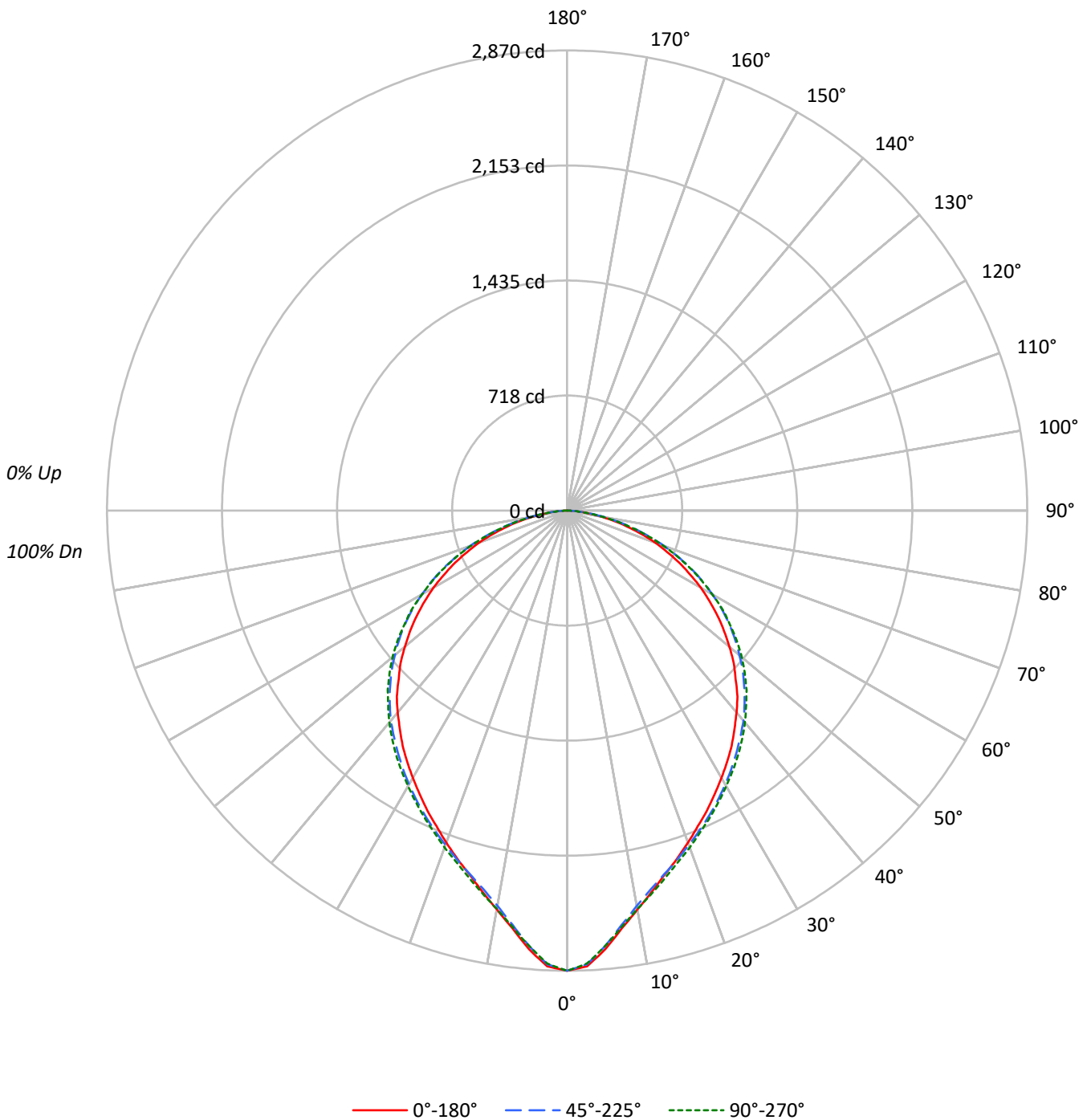
Lumens per Lamp: N/A
Luminaire Lumens: 6666.0 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	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°	7723	7723	7723
5°	7415	7363	7363
10°	6901	6838	6891
15°	6549	6537	6601
20°	6308	6354	6403
25°	6128	6228	6264
30°	5981	6128	6165
35°	5877	6049	6111
40°	5774	6008	6058
45°	5654	5949	6020
50°	5530	5875	5953
55°	5376	5790	5814
60°	5183	5631	5619
65°	4913	5415	5379
70°	4587	5050	4987
75°	4049	4474	4429
80°	3288	3645	3467
85°	2282	2325	2235



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.6	3.8
10°-20°	664.2	10.0
20°-30°	965.9	14.5
30°-40°	1149.4	17.2
40°-50°	1193.5	17.9
50°-60°	1081.2	16.2
60°-70°	815.9	12.2
70°-80°	444.6	6.7
80°-90°	97.7	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°	1883.7	28.3
0°-40°	3033.1	45.5
0°-60°	5307.9	79.6
0°-90°	6666.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6666.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2870	2870	2870	2870	2870	
5°	2745	2739	2726	2724	2726	255
15°	2351	2345	2346	2362	2369	663
25°	2064	2081	2098	2115	2110	951
35°	1789	1811	1842	1870	1860	1119
45°	1486	1512	1563	1580	1582	1149
55°	1146	1173	1234	1243	1239	1023
65°	772	794	850	849	845	763
75°	389	405	430	433	426	415
85°	74	74	75	74	72	93
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2869.8	2869.8	2869.8	2869.8	2869.8
2.5°	2844.7	2841.8	2832.5	2828.9	2828.2
5°	2745.0	2738.6	2725.7	2724.3	2725.7
7.5°	2626.0	2618.8	2605.9	2610.9	2617.4
10°	2525.6	2507.7	2502.6	2509.8	2522.0
12.5°	2435.9	2421.6	2417.3	2435.9	2444.6
15°	2350.6	2344.9	2346.3	2362.1	2369.3
17.5°	2276.8	2273.2	2282.5	2294.7	2298.3
20°	2202.9	2210.1	2218.7	2231.6	2235.9
22.5°	2130.5	2144.1	2158.5	2175.7	2169.9
25°	2063.8	2081.0	2097.5	2114.7	2109.7
27.5°	1992.8	2012.9	2035.8	2054.5	2047.3
30°	1924.7	1949.8	1972.0	1994.9	1984.2
32.5°	1857.3	1880.9	1907.5	1935.4	1923.2
35°	1789.1	1810.7	1841.5	1869.5	1860.2
37.5°	1713.9	1740.4	1775.5	1799.9	1793.5
40°	1643.6	1668.0	1710.3	1726.1	1724.6
42.5°	1572.6	1592.7	1637.1	1655.0	1652.2
45°	1485.8	1512.4	1563.3	1580.5	1581.9
47.5°	1409.1	1431.3	1485.8	1499.4	1502.3
50°	1320.9	1348.9	1403.4	1419.8	1422.0
52.5°	1234.1	1264.2	1320.2	1331.6	1333.8
55°	1145.9	1173.1	1234.1	1242.7	1239.2
57.5°	1053.4	1086.4	1142.4	1146.6	1150.2
60°	963.0	991.7	1046.2	1052.0	1044.1
62.5°	864.8	894.2	950.2	951.6	945.1
65°	771.6	793.8	850.4	849.0	844.7
67.5°	674.0	701.3	742.9	744.3	740.8
70°	583.0	601.6	641.8	642.5	633.9
72.5°	484.8	504.8	537.1	532.8	530.7
75°	389.4	405.2	430.3	433.1	426.0
77.5°	301.9	313.4	332.0	329.9	322.0
80°	212.2	221.6	235.2	232.4	223.7
82.5°	135.5	141.3	149.9	146.3	142.7
85°	73.9	74.5	75.3	74.5	72.4
87.5°	27.2	28.0	28.0	27.2	25.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)