

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: P489849

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-3LO-50-120-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: P489849
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-50-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

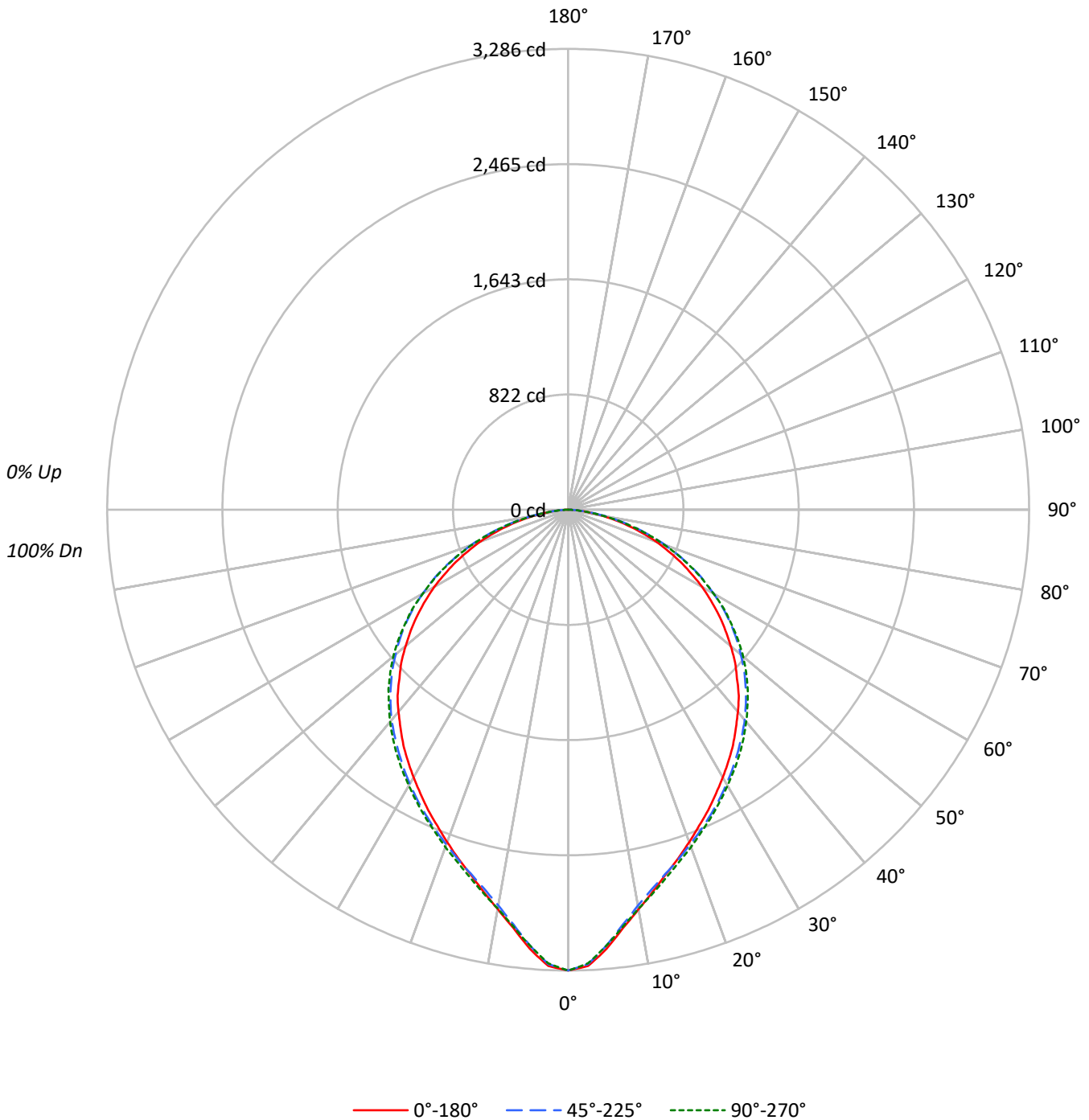
Lumens per Lamp: N/A
Luminaire Lumens: 7631.9 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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°	4421	4421	4421
5°	4245	4215	4215
10°	3951	3915	3945
15°	3749	3742	3779
20°	3611	3637	3665
25°	3508	3565	3586
30°	3423	3508	3529
35°	3365	3463	3498
40°	3305	3439	3468
45°	3237	3406	3446
50°	3166	3363	3408
55°	3077	3314	3328
60°	2967	3223	3217
65°	2812	3100	3079
70°	2626	2891	2855
75°	2318	2561	2535
80°	1883	2087	1984
85°	1306	1331	1280



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.3	3.8
10°-20°	760.5	10.0
20°-30°	1105.9	14.5
30°-40°	1316.0	17.2
40°-50°	1366.4	17.9
50°-60°	1237.9	16.2
60°-70°	934.1	12.2
70°-80°	509.0	6.7
80°-90°	111.8	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°	2156.7	28.3
0°-40°	3472.6	45.5
0°-60°	6077.0	79.6
0°-90°	7631.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7631.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3286	3286	3286	3286	3286	
5°	3143	3135	3121	3119	3121	292
15°	2691	2685	2686	2704	2713	760
25°	2363	2382	2401	2421	2415	1089
35°	2048	2073	2108	2140	2130	1281
45°	1701	1732	1790	1810	1811	1315
55°	1312	1343	1413	1423	1419	1171
65°	883	909	974	972	967	873
75°	446	464	493	496	488	475
85°	85	85	86	85	83	107
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3285.7	3285.7	3285.7	3285.7	3285.7
2.5°	3256.9	3253.6	3242.9	3238.8	3238.0
5°	3142.8	3135.4	3120.6	3119.0	3120.6
7.5°	3006.5	2998.3	2983.5	2989.3	2996.7
10°	2891.6	2871.0	2865.3	2873.5	2887.4
12.5°	2788.9	2772.5	2767.6	2788.9	2798.8
15°	2691.2	2684.6	2686.3	2704.4	2712.6
17.5°	2606.7	2602.6	2613.3	2627.2	2631.3
20°	2522.1	2530.3	2540.2	2555.0	2559.9
22.5°	2439.2	2454.8	2471.2	2490.9	2484.4
25°	2362.9	2382.5	2401.4	2421.1	2415.4
27.5°	2281.6	2304.5	2330.8	2352.2	2343.9
30°	2203.5	2232.3	2257.8	2284.0	2271.7
32.5°	2126.4	2153.5	2183.9	2215.9	2201.9
35°	2048.4	2073.0	2108.3	2140.4	2129.7
37.5°	1962.2	1992.6	2032.8	2060.7	2053.4
40°	1881.7	1909.7	1958.1	1976.2	1974.5
42.5°	1800.4	1823.5	1874.3	1894.9	1891.6
45°	1701.1	1731.5	1789.8	1809.5	1811.1
47.5°	1613.3	1638.7	1701.1	1716.7	1720.0
50°	1512.3	1544.3	1606.7	1625.6	1628.1
52.5°	1412.9	1447.4	1511.5	1524.6	1527.1
55°	1311.9	1343.1	1412.9	1422.8	1418.7
57.5°	1206.1	1243.8	1307.9	1312.8	1316.9
60°	1102.6	1135.4	1197.8	1204.4	1195.4
62.5°	990.1	1023.8	1087.8	1089.4	1082.1
65°	883.4	908.8	973.7	972.1	967.1
67.5°	771.7	802.9	850.6	852.2	848.1
70°	667.4	688.8	734.8	735.6	725.8
72.5°	555.0	578.0	614.9	610.0	607.6
75°	445.8	463.9	492.6	495.9	487.7
77.5°	345.7	358.8	380.1	377.7	368.6
80°	243.0	253.7	269.3	266.0	256.1
82.5°	155.1	161.8	171.6	167.5	163.4
85°	84.6	85.3	86.2	85.3	82.9
87.5°	31.2	32.0	32.0	31.2	28.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)