

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: P489847

Luminaire Tested: **CLM-24-4-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: P489847
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-40-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

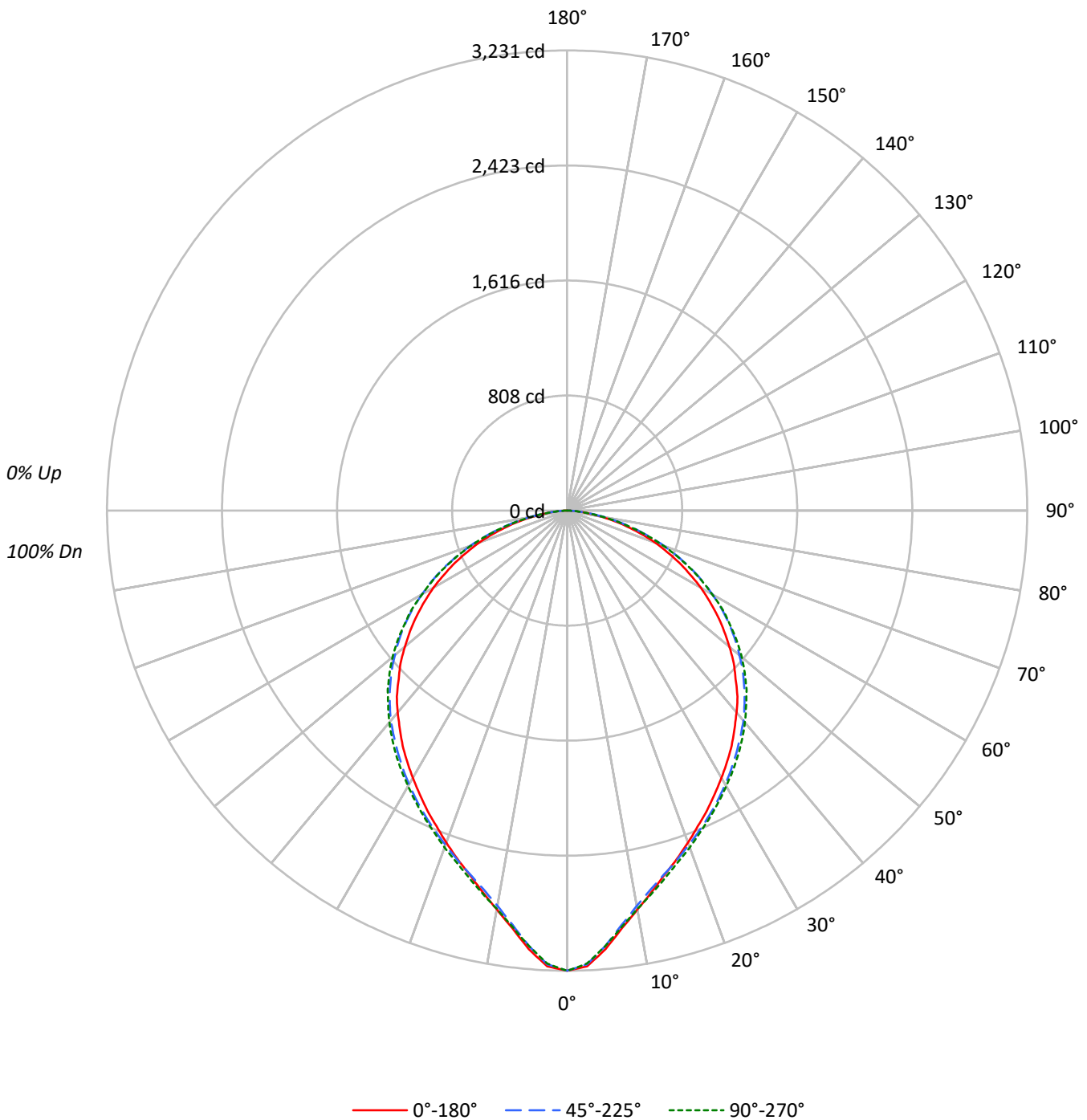
Lumens per Lamp: N/A
Luminaire Lumens: 7504.6 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	4347	4347	4347
5°	4174	4145	4145
10°	3885	3849	3879
15°	3686	3679	3715
20°	3551	3576	3604
25°	3449	3506	3526
30°	3366	3449	3471
35°	3308	3405	3440
40°	3250	3382	3410
45°	3183	3349	3389
50°	3113	3307	3351
55°	3026	3259	3272
60°	2918	3169	3163
65°	2765	3048	3028
70°	2582	2842	2808
75°	2279	2518	2493
80°	1851	2052	1951
85°	1284	1308	1258



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.5	3.8
10°-20°	747.8	10.0
20°-30°	1087.4	14.5
30°-40°	1294.0	17.2
40°-50°	1343.6	17.9
50°-60°	1217.2	16.2
60°-70°	918.5	12.2
70°-80°	500.5	6.7
80°-90°	110.0	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°	2120.7	28.3
0°-40°	3414.7	45.5
0°-60°	5975.6	79.6
0°-90°	7504.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7504.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3231	3231	3231	3231	3231	
5°	3090	3083	3069	3067	3069	287
15°	2646	2640	2642	2659	2667	747
25°	2323	2343	2361	2381	2375	1071
35°	2014	2038	2073	2105	2094	1259
45°	1673	1703	1760	1779	1781	1293
55°	1290	1321	1389	1399	1395	1152
65°	869	894	957	956	951	859
75°	438	456	484	488	480	467
85°	83	84	85	84	82	105
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3230.8	3230.8	3230.8	3230.8	3230.8
2.5°	3202.6	3199.4	3188.9	3184.8	3184.0
5°	3090.4	3083.1	3068.6	3067.0	3068.6
7.5°	2956.4	2948.3	2933.8	2939.4	2946.7
10°	2843.3	2823.2	2817.5	2825.6	2839.3
12.5°	2742.4	2726.3	2721.4	2742.4	2752.1
15°	2646.3	2639.9	2641.5	2659.3	2667.3
17.5°	2563.2	2559.2	2569.7	2583.4	2587.4
20°	2480.0	2488.1	2497.8	2512.4	2517.2
22.5°	2398.5	2413.8	2430.0	2449.4	2442.9
25°	2323.4	2342.8	2361.4	2380.7	2375.1
27.5°	2243.5	2266.1	2291.9	2312.9	2304.8
30°	2166.8	2195.1	2220.1	2245.9	2233.8
32.5°	2090.9	2117.6	2147.4	2178.9	2165.2
35°	2014.2	2038.5	2073.2	2104.7	2094.2
37.5°	1929.5	1959.3	1998.9	2026.3	2019.1
40°	1850.4	1877.8	1925.4	1943.2	1941.6
42.5°	1770.4	1793.1	1843.1	1863.3	1860.0
45°	1672.8	1702.6	1759.9	1779.3	1780.9
47.5°	1586.4	1611.4	1672.8	1688.1	1691.3
50°	1487.1	1518.6	1579.9	1598.4	1600.9
52.5°	1389.3	1423.2	1486.2	1499.1	1501.6
55°	1290.0	1320.7	1389.3	1399.1	1395.0
57.5°	1185.9	1223.1	1286.1	1290.9	1294.9
60°	1084.2	1116.5	1177.8	1184.3	1175.4
62.5°	973.6	1006.7	1069.7	1071.3	1064.0
65°	868.6	893.7	957.4	955.9	951.0
67.5°	758.8	789.5	836.4	838.0	834.0
70°	656.3	677.3	722.5	723.4	713.7
72.5°	545.8	568.3	604.6	599.8	597.4
75°	438.4	456.1	484.4	487.6	479.5
77.5°	339.9	352.8	373.8	371.4	362.5
80°	238.9	249.4	264.8	261.6	251.8
82.5°	152.5	159.1	168.7	164.7	160.6
85°	83.2	83.9	84.7	83.9	81.5
87.5°	30.7	31.5	31.5	30.7	28.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)