

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: P489800

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-2HI-50-120-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: P489800
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-LD4-2HI-50-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

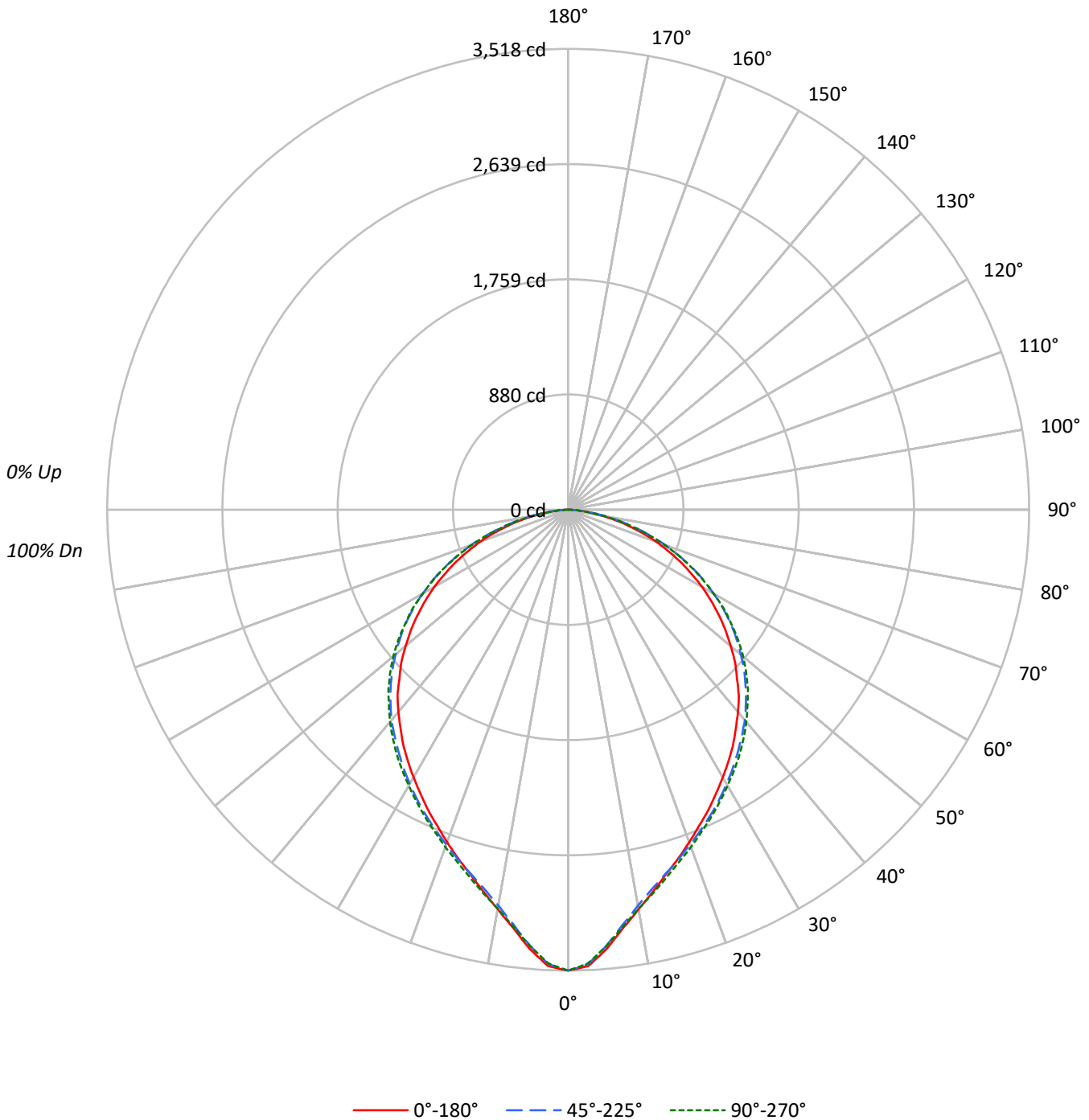
Lumens per Lamp: N/A
Luminaire Lumens: 8172.0 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	4734	4734	4734
5°	4545	4513	4513
10°	4230	4192	4224
15°	4014	4007	4046
20°	3867	3895	3925
25°	3756	3817	3840
30°	3666	3756	3779
35°	3603	3708	3746
40°	3539	3683	3713
45°	3466	3647	3690
50°	3390	3601	3649
55°	3295	3549	3563
60°	3177	3451	3444
65°	3011	3319	3297
70°	2812	3095	3057
75°	2481	2742	2715
80°	2016	2235	2125
85°	1399	1425	1371



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.9	3.8
10°-20°	814.3	10.0
20°-30°	1184.1	14.5
30°-40°	1409.1	17.2
40°-50°	1463.1	17.9
50°-60°	1325.5	16.2
60°-70°	1000.2	12.2
70°-80°	545.0	6.7
80°-90°	119.8	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°	2309.3	28.3
0°-40°	3718.4	45.5
0°-60°	6507.0	79.6
0°-90°	8172.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8172.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3518	3518	3518	3518	3518	
5°	3365	3357	3341	3340	3341	312
15°	2882	2875	2876	2896	2904	813
25°	2530	2551	2571	2592	2586	1166
35°	2193	2220	2258	2292	2280	1371
45°	1822	1854	1916	1938	1939	1408
55°	1405	1438	1513	1524	1519	1254
65°	946	973	1043	1041	1036	935
75°	477	497	528	531	522	508
85°	91	91	92	91	89	114
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3518.2	3518.2	3518.2	3518.2	3518.2
2.5°	3487.4	3483.9	3472.4	3468.0	3467.1
5°	3365.2	3357.3	3341.4	3339.7	3341.4
7.5°	3219.3	3210.5	3194.7	3200.8	3208.7
10°	3096.2	3074.2	3068.0	3076.8	3091.8
12.5°	2986.3	2968.7	2963.4	2986.3	2996.9
15°	2881.7	2874.6	2876.4	2895.8	2904.5
17.5°	2791.2	2786.8	2798.2	2813.1	2817.5
20°	2700.6	2709.4	2720.0	2735.8	2741.0
22.5°	2611.8	2628.5	2646.1	2667.2	2660.2
25°	2530.1	2551.1	2571.4	2592.5	2586.3
27.5°	2443.0	2467.6	2495.8	2518.6	2509.8
30°	2359.5	2390.3	2417.5	2445.6	2432.5
32.5°	2276.9	2305.9	2338.4	2372.7	2357.8
35°	2193.4	2219.7	2257.5	2291.8	2280.4
37.5°	2101.1	2133.6	2176.6	2206.5	2198.7
40°	2014.9	2044.8	2096.7	2116.0	2114.2
42.5°	1927.9	1952.5	2007.0	2029.0	2025.4
45°	1821.5	1854.0	1916.4	1937.6	1939.3
47.5°	1727.4	1754.7	1821.5	1838.2	1841.7
50°	1619.3	1653.6	1720.4	1740.6	1743.3
52.5°	1512.9	1549.8	1618.4	1632.5	1635.2
55°	1404.8	1438.2	1512.9	1523.5	1519.1
57.5°	1291.4	1331.8	1400.4	1405.7	1410.1
60°	1180.6	1215.8	1282.6	1289.6	1280.0
62.5°	1060.2	1096.2	1164.8	1166.5	1158.6
65°	945.9	973.2	1042.6	1040.9	1035.6
67.5°	826.3	859.7	910.8	912.5	908.1
70°	714.7	737.5	786.8	787.7	777.2
72.5°	594.3	618.9	658.4	653.2	650.6
75°	477.3	496.7	527.5	531.0	522.2
77.5°	370.1	384.2	407.0	404.4	394.7
80°	260.2	271.6	288.4	284.9	274.2
82.5°	166.1	173.2	183.8	179.3	174.9
85°	90.6	91.4	92.3	91.4	88.8
87.5°	33.4	34.3	34.3	33.4	30.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)