

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: P489887

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-4STD-20-120-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: P489887
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-LD4-4STD-20-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

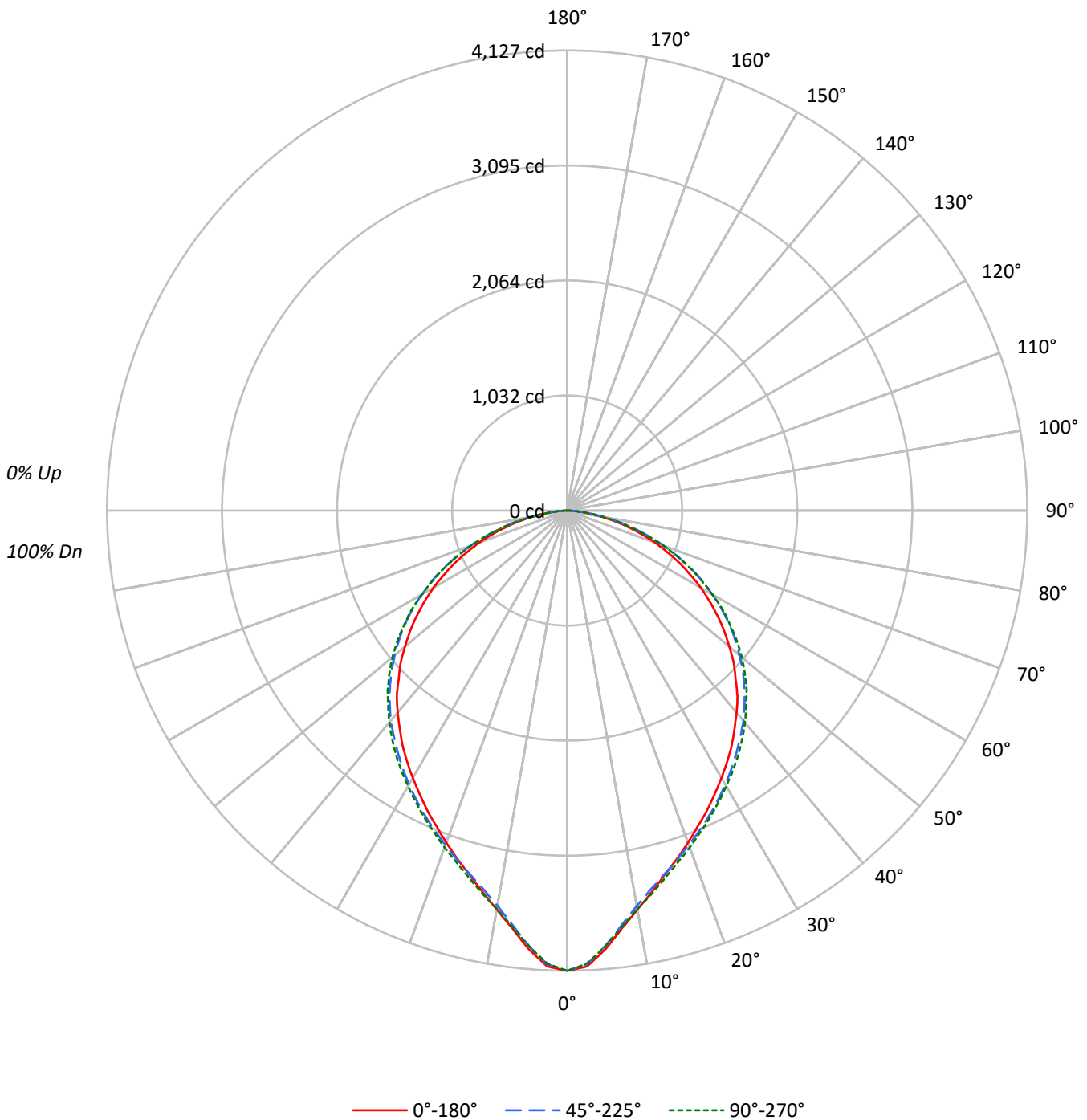
Lumens per Lamp: N/A
Luminaire Lumens: 9586.9 lumens
Efficiency: N/A
Efficacy: 72.0 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 133.2
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°	5553	5553	5553
5°	5332	5294	5294
10°	4963	4917	4956
15°	4709	4701	4746
20°	4536	4569	4604
25°	4406	4478	4504
30°	4300	4406	4433
35°	4226	4350	4394
40°	4152	4320	4356
45°	4066	4278	4329
50°	3976	4225	4281
55°	3866	4163	4180
60°	3727	4049	4041
65°	3533	3894	3868
70°	3298	3631	3587
75°	2911	3217	3185
80°	2365	2621	2493
85°	1639	1672	1607



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.7	3.8
10°-20°	955.3	10.0
20°-30°	1389.2	14.5
30°-40°	1653.1	17.2
40°-50°	1716.4	17.9
50°-60°	1555.0	16.2
60°-70°	1173.4	12.2
70°-80°	639.3	6.7
80°-90°	140.5	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°	2709.1	28.3
0°-40°	4362.2	45.5
0°-60°	7633.7	79.6
0°-90°	9586.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9586.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4127	4127	4127	4127	4127	
5°	3948	3939	3920	3918	3920	366
15°	3381	3372	3374	3397	3407	954
25°	2968	2993	3017	3041	3034	1368
35°	2573	2604	2648	2689	2675	1609
45°	2137	2175	2248	2273	2275	1652
55°	1648	1687	1775	1787	1782	1471
65°	1110	1142	1223	1221	1215	1097
75°	560	583	619	623	613	597
85°	106	107	108	107	104	134
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4127.3	4127.3	4127.3	4127.3	4127.3
2.5°	4091.2	4087.1	4073.7	4068.5	4067.4
5°	3947.9	3938.6	3920.0	3918.0	3920.0
7.5°	3776.7	3766.3	3747.8	3755.0	3764.3
10°	3632.3	3606.5	3599.2	3609.6	3627.1
12.5°	3503.3	3482.7	3476.5	3503.3	3515.8
15°	3380.6	3372.3	3374.5	3397.2	3407.4
17.5°	3274.4	3269.3	3282.7	3300.2	3305.4
20°	3168.2	3178.5	3190.9	3209.5	3215.6
22.5°	3064.0	3083.6	3104.3	3129.0	3120.8
25°	2968.1	2992.9	3016.6	3041.3	3034.1
27.5°	2866.0	2894.8	2927.9	2954.7	2944.4
30°	2768.0	2804.1	2836.1	2869.1	2853.6
32.5°	2671.1	2705.1	2743.3	2783.5	2766.0
35°	2573.1	2604.1	2648.4	2688.7	2675.2
37.5°	2464.9	2503.0	2553.5	2588.5	2579.3
40°	2363.8	2398.8	2459.7	2482.4	2480.3
42.5°	2261.6	2290.6	2354.5	2380.3	2376.1
45°	2136.9	2175.0	2248.2	2273.0	2275.1
47.5°	2026.5	2058.5	2136.9	2156.4	2160.6
50°	1899.7	1939.9	2018.3	2042.0	2045.1
52.5°	1774.8	1818.2	1898.6	1915.1	1918.3
55°	1648.0	1687.2	1774.8	1787.3	1782.1
57.5°	1515.0	1562.4	1642.9	1649.0	1654.2
60°	1385.0	1426.3	1504.7	1512.9	1501.6
62.5°	1243.8	1286.0	1366.5	1368.5	1359.2
65°	1109.7	1141.6	1223.1	1221.1	1214.8
67.5°	969.4	1008.6	1068.4	1070.5	1065.4
70°	838.4	865.2	923.0	924.1	911.7
72.5°	697.2	726.0	772.4	766.3	763.2
75°	560.0	582.7	618.8	622.9	612.6
77.5°	434.2	450.7	477.5	474.4	463.0
80°	305.2	318.7	338.3	334.2	321.7
82.5°	194.9	203.2	215.6	210.4	205.2
85°	106.2	107.2	108.3	107.2	104.1
87.5°	39.2	40.2	40.2	39.2	36.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)