

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: P489883

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-4LO-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: P489883
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-LD4-4LO-40-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

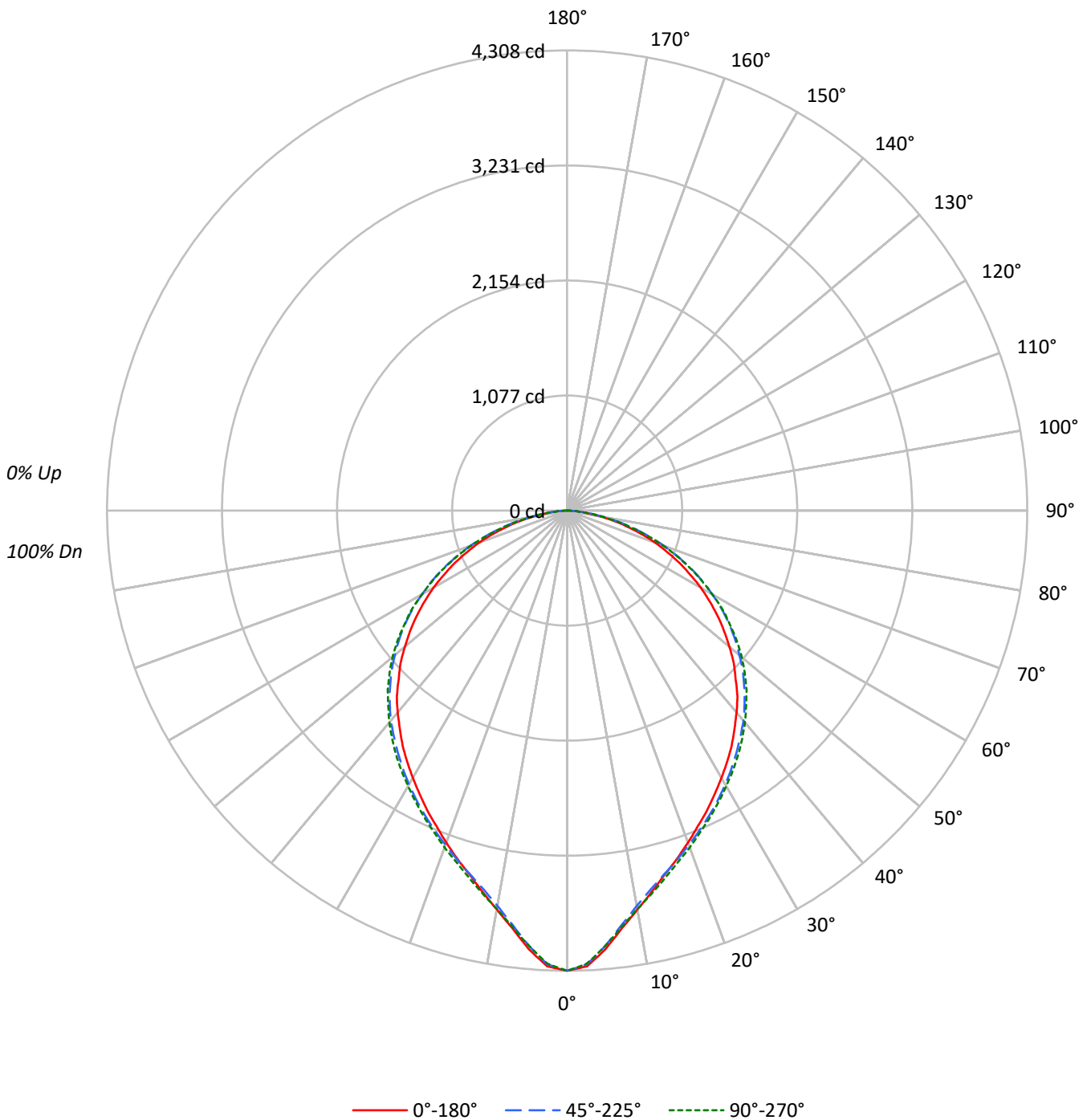
Lumens per Lamp: N/A
Luminaire Lumens: 10006.1 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 93.6
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°	5796	5796	5796
5°	5565	5526	5526
10°	5180	5132	5172
15°	4915	4906	4954
20°	4735	4769	4806
25°	4599	4674	4701
30°	4488	4599	4627
35°	4411	4540	4586
40°	4333	4509	4547
45°	4244	4465	4518
50°	4150	4409	4468
55°	4035	4346	4363
60°	3890	4226	4218
65°	3687	4064	4037
70°	3443	3790	3744
75°	3039	3358	3324
80°	2469	2736	2602
85°	1712	1744	1678



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	380.6	3.8
10°-20°	997.1	10.0
20°-30°	1449.9	14.5
30°-40°	1725.3	17.2
40°-50°	1791.5	17.9
50°-60°	1623.0	16.2
60°-70°	1224.7	12.2
70°-80°	667.3	6.7
80°-90°	146.6	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°	2827.6	28.3
0°-40°	4552.9	45.5
0°-60°	7967.4	79.6
0°-90°	10006.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10006.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4308	4308	4308	4308	4308	
5°	4120	4111	4091	4089	4091	382
15°	3528	3520	3522	3546	3556	996
25°	3098	3124	3148	3174	3167	1428
35°	2686	2718	2764	2806	2792	1679
45°	2230	2270	2346	2372	2374	1724
55°	1720	1761	1852	1865	1860	1536
65°	1158	1192	1277	1274	1268	1145
75°	584	608	646	650	639	623
85°	111	112	113	112	109	140
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4307.8	4307.8	4307.8	4307.8	4307.8
2.5°	4270.1	4265.8	4251.8	4246.4	4245.3
5°	4120.5	4110.8	4091.4	4089.3	4091.4
7.5°	3941.8	3931.0	3911.7	3919.2	3928.9
10°	3791.1	3764.2	3756.6	3767.4	3785.7
12.5°	3656.5	3635.0	3628.5	3656.5	3669.5
15°	3528.4	3519.8	3522.0	3545.7	3556.4
17.5°	3417.6	3412.2	3426.2	3444.5	3449.9
20°	3306.7	3317.5	3330.4	3349.8	3356.2
22.5°	3198.0	3218.4	3240.0	3265.8	3257.2
25°	3097.9	3123.7	3148.5	3174.3	3166.8
27.5°	2991.3	3021.4	3055.9	3083.9	3073.1
30°	2889.0	2926.7	2960.1	2994.5	2978.4
32.5°	2787.9	2823.4	2863.2	2905.2	2886.9
35°	2685.6	2717.9	2764.2	2806.2	2792.2
37.5°	2572.6	2612.4	2665.1	2701.7	2692.1
40°	2467.1	2503.7	2567.2	2590.9	2588.7
42.5°	2360.5	2390.7	2457.4	2484.3	2480.0
45°	2230.3	2270.1	2346.5	2372.4	2374.5
47.5°	2115.1	2148.5	2230.3	2250.7	2255.0
50°	1982.7	2024.7	2106.5	2131.2	2134.5
52.5°	1852.5	1897.7	1981.6	1998.9	2002.1
55°	1720.1	1761.0	1852.5	1865.4	1860.0
57.5°	1581.3	1630.8	1714.8	1721.2	1726.6
60°	1445.6	1488.7	1570.5	1579.1	1567.3
62.5°	1298.2	1342.3	1426.3	1428.4	1418.7
65°	1158.2	1191.6	1276.6	1274.5	1268.0
67.5°	1011.8	1052.7	1115.2	1117.3	1112.0
70°	875.1	903.1	963.4	964.5	951.6
72.5°	727.7	757.8	806.2	799.8	796.6
75°	584.5	608.2	645.9	650.2	639.4
77.5°	453.2	470.4	498.4	495.2	483.3
80°	318.6	332.6	353.1	348.8	335.8
82.5°	203.4	212.1	225.0	219.6	214.2
85°	110.9	111.9	113.0	111.9	108.7
87.5°	40.9	42.0	42.0	40.9	37.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)