

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: P489869

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-4HI-35-120-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: P489869
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-LD4-4HI-35-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

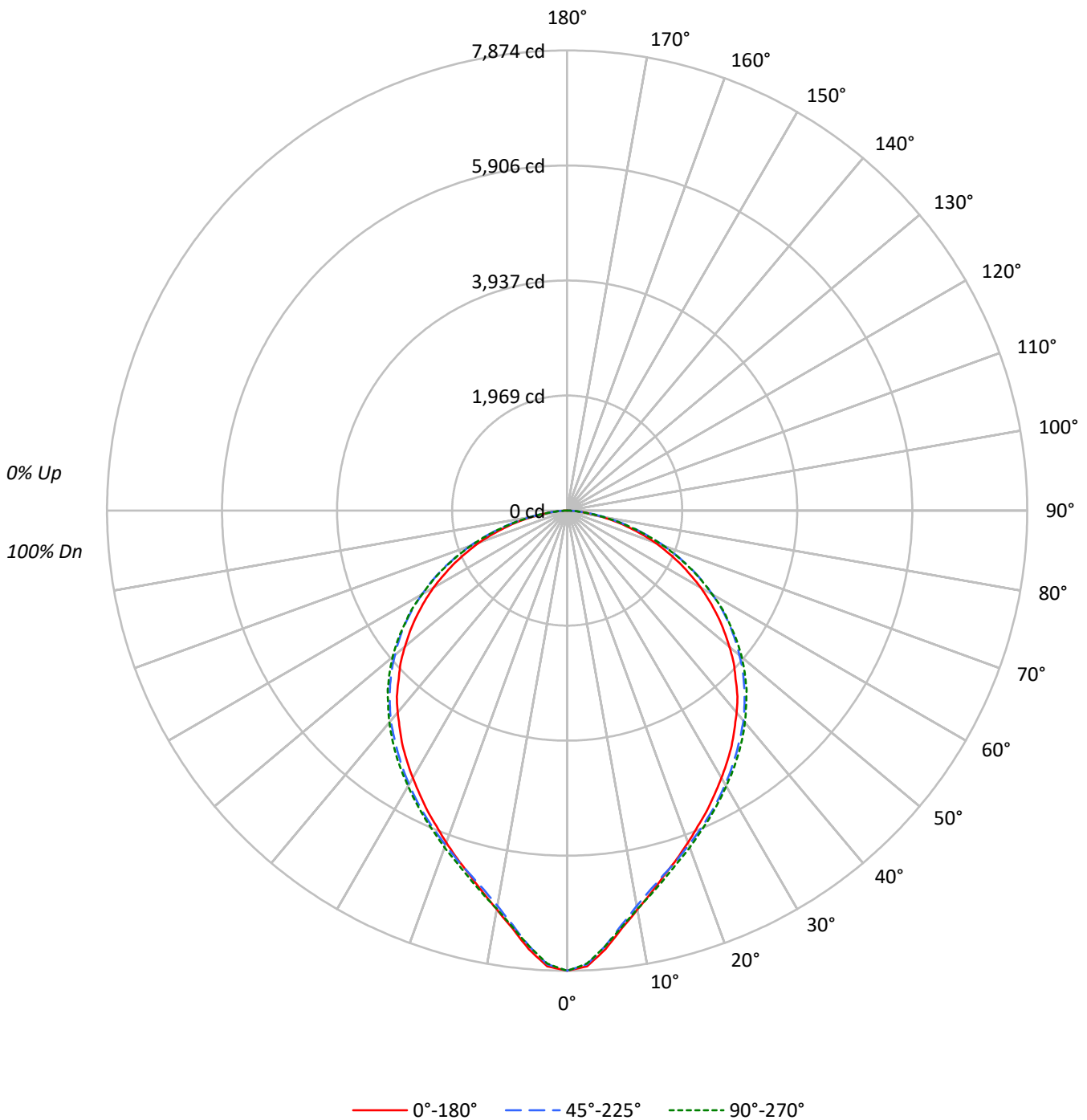
Lumens per Lamp: N/A
Luminaire Lumens: 18289.8 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 172.8
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°	10594	10594	10594
5°	10173	10101	10101
10°	9468	9381	9454
15°	8984	8968	9055
20°	8654	8716	8784
25°	8407	8544	8594
30°	8204	8406	8458
35°	8063	8299	8383
40°	7921	8242	8311
45°	7757	8162	8259
50°	7586	8060	8167
55°	7375	7943	7975
60°	7110	7725	7709
65°	6740	7429	7379
70°	6292	6927	6842
75°	5554	6137	6076
80°	4512	5001	4756
85°	3129	3188	3067



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	695.8	3.8
10°-20°	1822.5	10.0
20°-30°	2650.2	14.5
30°-40°	3153.7	17.2
40°-50°	3274.6	17.9
50°-60°	2966.6	16.2
60°-70°	2238.6	12.2
70°-80°	1219.7	6.7
80°-90°	268.0	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°	5168.5	28.3
0°-40°	8322.2	45.5
0°-60°	14563.4	79.6
0°-90°	18289.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18289.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7874	7874	7874	7874	7874	
5°	7532	7514	7478	7475	7478	699
15°	6450	6434	6438	6481	6501	1820
25°	5663	5710	5755	5802	5788	2609
35°	4909	4968	5053	5129	5104	3069
45°	4077	4150	4289	4336	4340	3151
55°	3144	3219	3386	3410	3400	2807
65°	2117	2178	2333	2330	2318	2093
75°	1068	1112	1181	1188	1169	1138
85°	203	204	206	204	199	256
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7874.0	7874.0	7874.0	7874.0	7874.0
2.5°	7805.1	7797.3	7771.7	7761.8	7759.8
5°	7531.7	7514.0	7478.5	7474.7	7478.5
7.5°	7205.1	7185.3	7150.0	7163.8	7181.5
10°	6929.6	6880.4	6866.6	6886.3	6919.8
12.5°	6683.6	6644.3	6632.4	6683.6	6707.4
15°	6449.5	6433.7	6437.8	6481.1	6500.6
17.5°	6246.9	6237.1	6262.6	6296.1	6306.0
20°	6044.2	6064.0	6087.5	6123.0	6134.7
22.5°	5845.5	5882.8	5922.3	5969.5	5953.7
25°	5662.6	5709.7	5755.1	5802.2	5788.5
27.5°	5467.7	5522.8	5585.8	5637.0	5617.2
30°	5280.8	5349.7	5410.7	5473.6	5444.2
32.5°	5095.9	5160.8	5233.6	5310.4	5276.9
35°	4909.0	4968.0	5052.6	5129.4	5103.8
37.5°	4702.4	4775.2	4871.5	4938.4	4920.8
40°	4509.6	4576.5	4692.6	4735.9	4731.9
42.5°	4314.7	4369.9	4491.9	4541.0	4533.2
45°	4076.8	4149.5	4289.2	4336.5	4340.3
47.5°	3866.2	3927.2	4076.8	4114.1	4121.9
50°	3624.2	3701.0	3850.5	3895.6	3901.7
52.5°	3386.0	3468.7	3622.2	3653.6	3659.6
55°	3144.0	3218.8	3386.0	3409.8	3399.9
57.5°	2890.3	2980.8	3134.3	3146.0	3155.9
60°	2642.3	2721.1	2870.6	2886.3	2864.7
62.5°	2372.9	2453.5	2607.0	2610.9	2593.1
65°	2117.0	2178.0	2333.4	2329.6	2317.7
67.5°	1849.4	1924.2	2038.4	2042.2	2032.5
70°	1599.5	1650.7	1760.9	1762.9	1739.3
72.5°	1330.1	1385.1	1473.6	1461.9	1456.0
75°	1068.4	1111.7	1180.6	1188.4	1168.7
77.5°	828.4	859.8	911.0	905.1	883.4
80°	582.3	607.9	645.4	637.5	613.8
82.5°	371.8	387.7	411.3	401.4	391.5
85°	202.7	204.5	206.5	204.5	198.7
87.5°	74.8	76.8	76.8	74.8	68.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)