

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: P489865

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-4HI-27-120-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: P489865
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-27-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

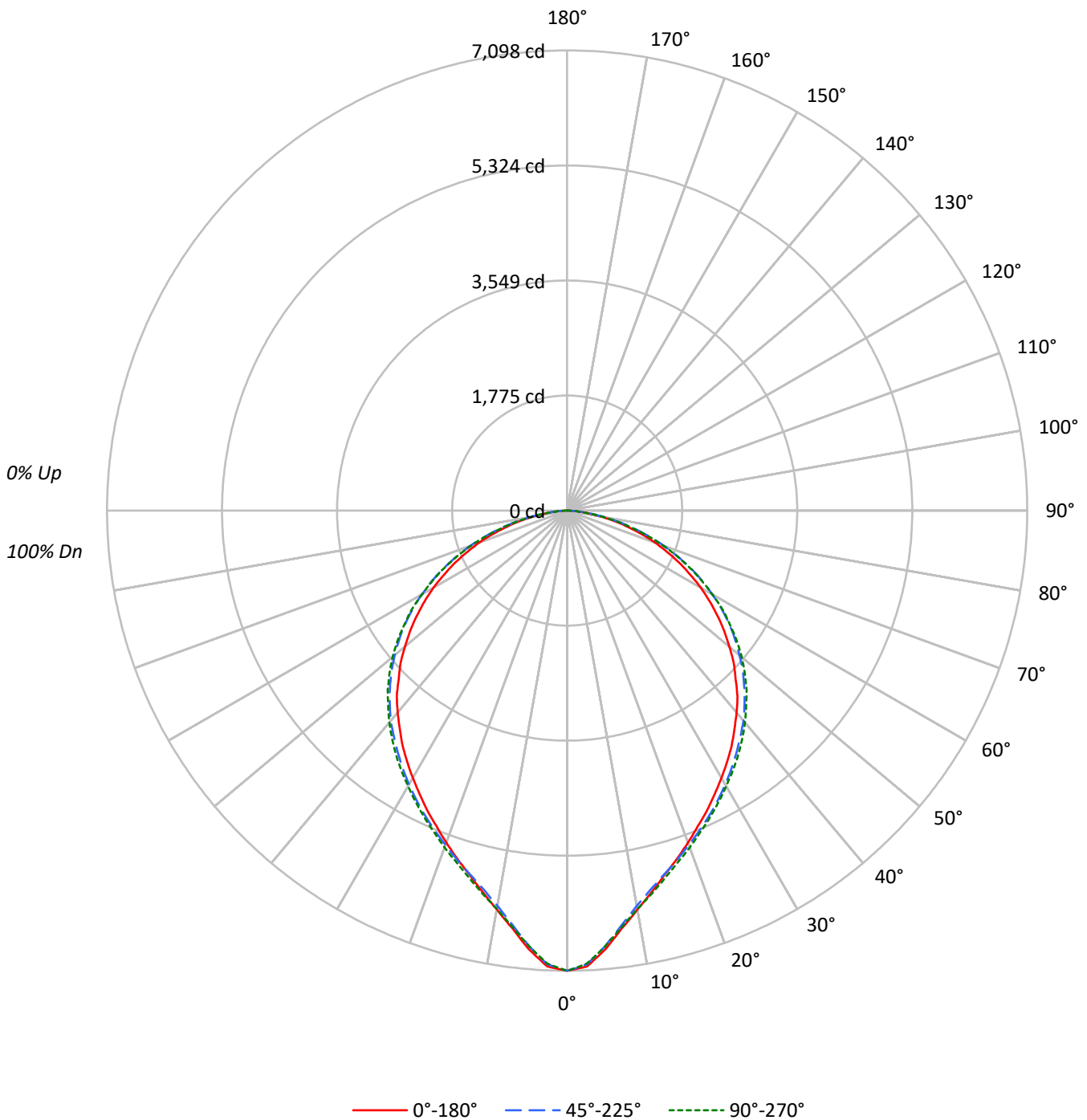
Lumens per Lamp: N/A
Luminaire Lumens: 16488.4 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	9551	9551	9551
5°	9171	9106	9106
10°	8535	8457	8523
15°	8099	8084	8163
20°	7802	7858	7919
25°	7579	7702	7747
30°	7396	7578	7625
35°	7269	7482	7557
40°	7141	7430	7493
45°	6993	7358	7445
50°	6839	7266	7363
55°	6649	7161	7190
60°	6410	6964	6950
65°	6076	6697	6652
70°	5673	6245	6168
75°	5007	5533	5477
80°	4068	4508	4287
85°	2820	2875	2765



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	627.2	3.8
10°-20°	1643.0	10.0
20°-30°	2389.2	14.5
30°-40°	2843.1	17.2
40°-50°	2952.1	17.9
50°-60°	2674.4	16.2
60°-70°	2018.1	12.2
70°-80°	1099.6	6.7
80°-90°	241.6	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°	4659.4	28.3
0°-40°	7502.5	45.5
0°-60°	13129.0	79.6
0°-90°	16488.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16488.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7098	7098	7098	7098	7098	
5°	6790	6774	6742	6738	6742	630
15°	5814	5800	5804	5843	5860	1641
25°	5105	5147	5188	5231	5218	2352
35°	4426	4479	4555	4624	4601	2767
45°	3675	3741	3867	3909	3913	2841
55°	2834	2902	3052	3074	3065	2531
65°	1908	1964	2104	2100	2089	1887
75°	963	1002	1064	1071	1054	1026
85°	183	184	186	184	179	231
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7098.5	7098.5	7098.5	7098.5	7098.5
2.5°	7036.4	7029.3	7006.2	6997.4	6995.5
5°	6789.9	6773.9	6741.9	6738.5	6741.9
7.5°	6495.4	6477.6	6445.8	6458.2	6474.2
10°	6247.1	6202.8	6190.3	6208.1	6238.2
12.5°	6025.3	5989.9	5979.2	6025.3	6046.7
15°	5814.2	5800.1	5803.7	5842.7	5860.4
17.5°	5631.7	5622.8	5645.8	5676.0	5684.9
20°	5448.9	5466.7	5488.0	5519.9	5530.5
22.5°	5269.8	5303.4	5339.0	5381.5	5367.3
25°	5104.9	5147.4	5188.2	5230.7	5218.4
27.5°	4929.2	4978.8	5035.6	5081.8	5064.0
30°	4760.6	4822.8	4877.8	4934.5	4907.9
32.5°	4594.0	4652.5	4718.1	4787.3	4757.2
35°	4425.5	4478.7	4555.0	4624.2	4601.1
37.5°	4239.3	4304.9	4391.7	4452.0	4436.2
40°	4065.4	4125.7	4230.4	4269.4	4265.8
42.5°	3889.8	3939.5	4049.4	4093.8	4086.7
45°	3675.2	3740.8	3866.7	3909.4	3912.8
47.5°	3485.4	3540.4	3675.2	3708.9	3715.9
50°	3267.2	3336.4	3471.2	3511.9	3517.4
52.5°	3052.5	3127.0	3265.4	3293.8	3299.2
55°	2834.4	2901.8	3052.5	3073.9	3065.1
57.5°	2605.6	2687.2	2825.6	2836.2	2845.1
60°	2382.1	2453.1	2587.9	2602.0	2582.6
62.5°	2139.2	2211.8	2350.2	2353.7	2337.7
65°	1908.5	1963.5	2103.6	2100.1	2089.4
67.5°	1667.2	1734.6	1837.6	1841.1	1832.3
70°	1442.0	1488.1	1587.5	1589.3	1568.0
72.5°	1199.1	1248.7	1328.5	1317.9	1312.6
75°	963.1	1002.2	1064.3	1071.4	1053.6
77.5°	746.8	775.1	821.3	816.0	796.4
80°	525.0	548.1	581.8	574.7	553.3
82.5°	335.2	349.5	370.7	361.9	353.0
85°	182.7	184.4	186.2	184.4	179.1
87.5°	67.4	69.2	69.2	67.4	62.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)