

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: P489565

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-5STD-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: P489565
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-115-8)
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-A12125-LD4-5STD-27-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

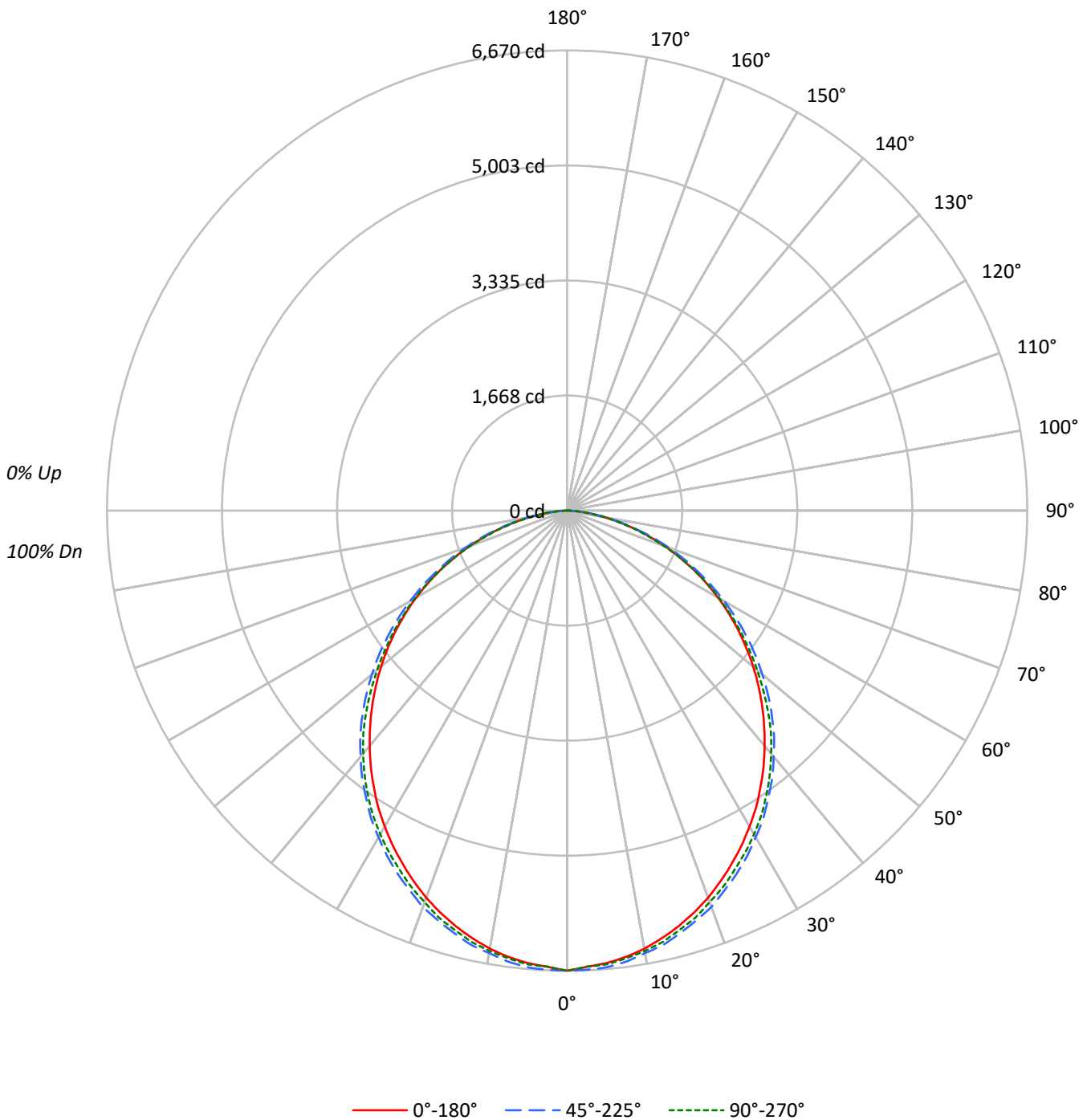
Lumens per Lamp: N/A
Luminaire Lumens: 17534.7 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 166.5
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	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	64	55	48	75	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8974	8974	8974
5°	8891	8974	8919
10°	8809	8899	8856
15°	8687	8828	8766
20°	8551	8754	8648
25°	8384	8628	8528
30°	8215	8493	8416
35°	8030	8348	8271
40°	7821	8181	8077
45°	7602	7985	7834
50°	7373	7730	7527
55°	7105	7438	7210
60°	6803	7085	6866
65°	6411	6657	6416
70°	5899	6137	5834
75°	5195	5429	5115
80°	4221	4404	4172
85°	2939	3132	3057



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	628.1	3.6
10°-20°	1780.0	10.2
20°-30°	2654.8	15.1
30°-40°	3146.0	17.9
40°-50°	3183.3	18.2
50°-60°	2780.1	15.9
60°-70°	2031.6	11.6
70°-80°	1081.0	6.2
80°-90°	249.8	1.4
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°	5063.0	28.9
0°-40°	8209.0	46.8
0°-60°	14172.3	80.8
0°-90°	17534.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17534.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6670	6670	6670	6670	6670	
5°	6583	6595	6645	6660	6604	624
15°	6237	6278	6337	6376	6293	1758
25°	5647	5717	5811	5833	5745	2602
35°	4889	4965	5082	5118	5035	3057
45°	3995	4066	4196	4200	4117	3082
55°	3029	3090	3171	3125	3074	2708
65°	2014	2055	2091	2049	2015	1993
75°	999	1022	1044	1006	984	1062
85°	190	194	203	205	198	241
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6669.6	6669.6	6669.6	6669.6	6669.6
2.5°	6617.5	6639.0	6661.2	6671.0	6616.8
5°	6582.7	6595.2	6644.6	6659.8	6603.6
7.5°	6525.7	6544.5	6592.4	6599.4	6545.2
10°	6447.9	6481.3	6513.2	6548.0	6482.0
12.5°	6348.5	6393.7	6447.9	6454.2	6404.1
15°	6236.7	6278.4	6337.4	6375.6	6292.9
17.5°	6111.6	6151.9	6228.3	6235.3	6185.2
20°	5971.9	6021.9	6113.7	6129.6	6040.0
22.5°	5813.5	5880.9	5957.3	5972.6	5906.6
25°	5647.4	5716.9	5811.4	5832.9	5744.7
27.5°	5473.7	5540.4	5646.7	5662.0	5587.6
30°	5287.4	5350.0	5466.7	5492.4	5416.7
32.5°	5098.4	5161.0	5290.2	5311.8	5238.1
35°	4888.6	4965.0	5082.4	5117.9	5035.2
37.5°	4674.5	4748.9	4882.3	4914.3	4825.3
40°	4452.9	4526.5	4657.9	4684.3	4598.8
42.5°	4226.3	4300.0	4440.4	4444.5	4373.7
45°	3994.9	4065.8	4196.5	4199.9	4117.2
47.5°	3760.1	3831.6	3948.4	3935.2	3857.3
50°	3522.4	3590.5	3692.7	3666.3	3596.1
52.5°	3276.4	3342.4	3439.0	3395.9	3329.9
55°	3029.0	3090.2	3170.8	3124.9	3073.5
57.5°	2779.6	2841.4	2903.3	2856.7	2812.2
60°	2528.0	2582.2	2632.9	2585.7	2551.6
62.5°	2272.3	2318.9	2362.6	2317.5	2285.5
65°	2013.8	2054.8	2090.9	2049.2	2015.2
67.5°	1756.7	1791.4	1824.8	1781.7	1746.3
70°	1499.6	1529.5	1560.0	1515.6	1482.9
72.5°	1245.9	1272.3	1299.4	1256.4	1227.9
75°	999.3	1022.2	1044.4	1006.2	984.0
77.5°	763.7	783.1	798.4	774.1	752.6
80°	544.8	559.4	568.4	558.7	538.5
82.5°	350.2	360.6	365.5	364.8	351.6
85°	190.4	193.9	202.9	205.0	198.0
87.5°	73.7	78.5	80.6	86.9	79.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)