

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: P489520

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-4LO-35-120-EDD-90**

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: P489520
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-LD4-4LO-35-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

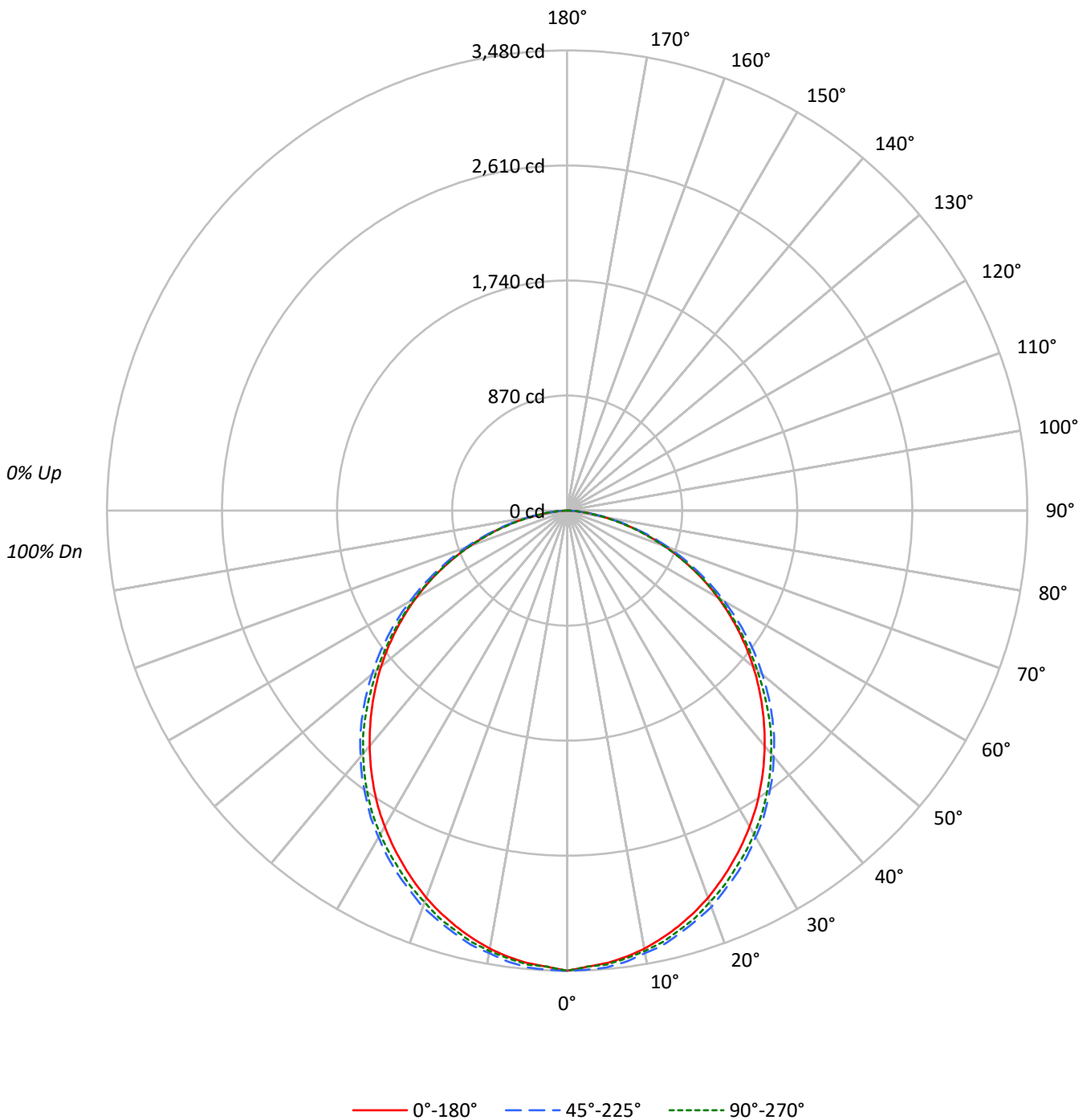
Lumens per Lamp: N/A
Luminaire Lumens: 9149.3 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	4682	4682	4682
5°	4639	4683	4654
10°	4597	4643	4621
15°	4533	4606	4574
20°	4462	4568	4513
25°	4375	4502	4450
30°	4286	4432	4391
35°	4190	4356	4315
40°	4081	4269	4215
45°	3966	4166	4088
50°	3847	4033	3928
55°	3708	3881	3762
60°	3550	3697	3583
65°	3345	3473	3348
70°	3078	3202	3044
75°	2711	2833	2669
80°	2203	2298	2177
85°	1533	1635	1595



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	327.8	3.6
10°-20°	928.8	10.2
20°-30°	1385.2	15.1
30°-40°	1641.5	17.9
40°-50°	1661.0	18.2
50°-60°	1450.6	15.9
60°-70°	1060.0	11.6
70°-80°	564.0	6.2
80°-90°	130.4	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°	2641.8	28.9
0°-40°	4283.3	46.8
0°-60°	7394.9	80.8
0°-90°	9149.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9149.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3480	3480	3480	3480	3480	
5°	3435	3441	3467	3475	3446	326
15°	3254	3276	3307	3327	3284	917
25°	2947	2983	3032	3044	2998	1358
35°	2551	2591	2652	2670	2627	1595
45°	2084	2122	2190	2191	2148	1608
55°	1580	1612	1654	1630	1604	1413
65°	1051	1072	1091	1069	1052	1040
75°	521	533	545	525	513	554
85°	99	101	106	107	103	126
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3480.1	3480.1	3480.1	3480.1	3480.1
2.5°	3452.9	3464.1	3475.7	3480.8	3452.5
5°	3434.7	3441.3	3467.0	3475.0	3445.6
7.5°	3405.0	3414.8	3439.8	3443.4	3415.2
10°	3364.4	3381.8	3398.5	3416.6	3382.2
12.5°	3312.6	3336.1	3364.4	3367.7	3341.6
15°	3254.2	3275.9	3306.8	3326.7	3283.5
17.5°	3188.9	3209.9	3249.8	3253.5	3227.3
20°	3116.0	3142.1	3190.0	3198.3	3151.6
22.5°	3033.4	3068.5	3108.4	3116.4	3082.0
25°	2946.7	2983.0	3032.3	3043.5	2997.5
27.5°	2856.1	2890.9	2946.3	2954.3	2915.5
30°	2758.9	2791.5	2852.4	2865.9	2826.3
32.5°	2660.3	2692.9	2760.3	2771.6	2733.1
35°	2550.8	2590.7	2651.9	2670.4	2627.3
37.5°	2439.1	2477.9	2547.5	2564.2	2517.8
40°	2323.4	2361.9	2430.4	2444.2	2399.6
42.5°	2205.2	2243.7	2316.9	2319.1	2282.1
45°	2084.5	2121.5	2189.6	2191.4	2148.3
47.5°	1961.9	1999.3	2060.2	2053.3	2012.7
50°	1837.9	1873.5	1926.8	1913.0	1876.4
52.5°	1709.6	1744.0	1794.4	1771.9	1737.5
55°	1580.5	1612.4	1654.5	1630.5	1603.7
57.5°	1450.3	1482.6	1514.9	1490.6	1467.4
60°	1319.1	1347.4	1373.8	1349.2	1331.4
62.5°	1185.6	1209.9	1232.8	1209.2	1192.5
65°	1050.8	1072.2	1091.0	1069.3	1051.5
67.5°	916.6	934.7	952.1	929.7	911.2
70°	782.5	798.0	814.0	790.8	773.8
72.5°	650.1	663.9	678.0	655.5	640.7
75°	521.4	533.4	545.0	525.0	513.4
77.5°	398.5	408.6	416.6	403.9	392.7
80°	284.3	291.9	296.6	291.5	281.0
82.5°	182.7	188.2	190.7	190.4	183.5
85°	99.3	101.2	105.9	107.0	103.3
87.5°	38.4	41.0	42.1	45.3	41.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)