

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: P489569

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-5STD-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: P489569
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-35-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

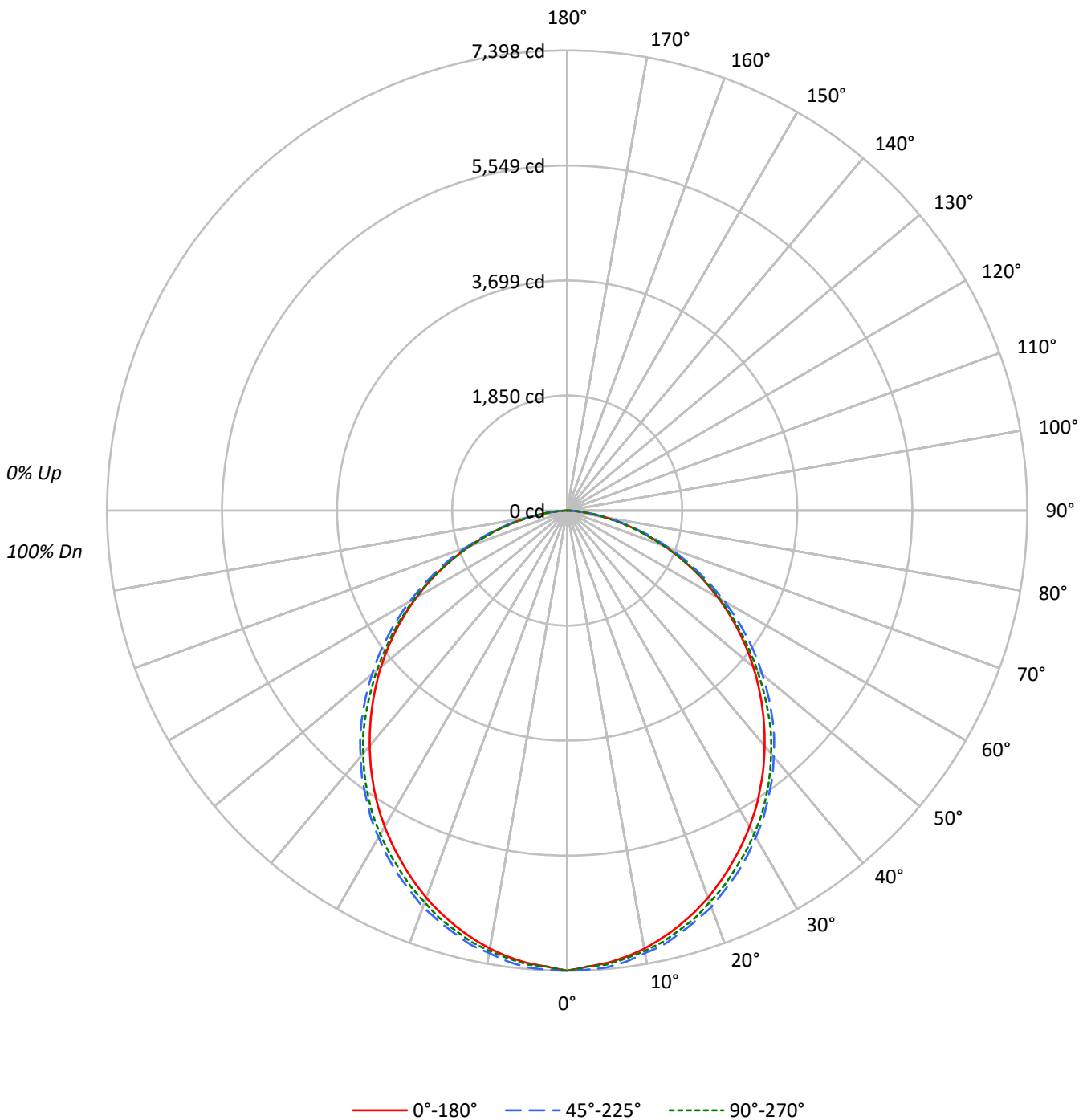
Lumens per Lamp: N/A
Luminaire Lumens: 19450.4 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	9954	9954	9954
5°	9862	9955	9893
10°	9772	9871	9823
15°	9636	9792	9724
20°	9485	9710	9593
25°	9300	9570	9460
30°	9112	9421	9335
35°	8907	9260	9174
40°	8676	9075	8960
45°	8432	8857	8690
50°	8179	8574	8350
55°	7882	8251	7997
60°	7546	7859	7617
65°	7112	7384	7117
70°	6544	6808	6471
75°	5762	6023	5674
80°	4682	4885	4629
85°	3260	3475	3392



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	696.8	3.6
10°-20°	1974.5	10.2
20°-30°	2944.9	15.1
30°-40°	3489.7	17.9
40°-50°	3531.0	18.2
50°-60°	3083.8	15.9
60°-70°	2253.5	11.6
70°-80°	1199.1	6.2
80°-90°	277.1	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°	5616.1	28.9
0°-40°	9105.8	46.8
0°-60°	15720.7	80.8
0°-90°	19450.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19450.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7398	7398	7398	7398	7398	
5°	7302	7316	7370	7387	7325	692
15°	6918	6964	7030	7072	6980	1950
25°	6264	6342	6446	6470	6372	2886
35°	5423	5507	5638	5677	5585	3391
45°	4431	4510	4655	4659	4567	3419
55°	3360	3428	3517	3466	3409	3004
65°	2234	2279	2319	2273	2235	2210
75°	1108	1134	1158	1116	1092	1178
85°	211	215	225	227	220	267
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7398.2	7398.2	7398.2	7398.2	7398.2
2.5°	7340.4	7364.3	7389.0	7399.8	7339.7
5°	7301.9	7315.8	7370.5	7387.4	7325.0
7.5°	7238.7	7259.5	7312.7	7320.4	7260.3
10°	7152.4	7189.4	7224.8	7263.3	7190.1
12.5°	7042.1	7092.2	7152.4	7159.3	7103.8
15°	6918.0	6964.3	7029.8	7072.2	6980.5
17.5°	6779.3	6824.0	6908.8	6916.5	6861.0
20°	6624.3	6679.8	6781.6	6799.3	6699.9
22.5°	6448.6	6523.4	6608.2	6625.1	6551.9
25°	6264.4	6341.5	6446.3	6470.2	6372.3
27.5°	6071.7	6145.7	6263.6	6280.6	6198.1
30°	5865.1	5934.5	6064.0	6092.5	6008.5
32.5°	5655.4	5724.8	5868.2	5892.1	5810.4
35°	5422.7	5507.4	5637.7	5677.0	5585.3
37.5°	5185.2	5267.7	5415.7	5451.2	5352.5
40°	4939.4	5021.1	5166.7	5196.0	5101.2
42.5°	4688.1	4769.8	4925.5	4930.1	4851.5
45°	4431.4	4510.0	4654.9	4658.8	4567.1
47.5°	4170.9	4250.2	4379.7	4365.1	4278.8
50°	3907.2	3982.8	4096.1	4066.8	3988.9
52.5°	3634.4	3707.6	3814.7	3767.0	3693.7
55°	3360.0	3427.8	3517.2	3466.3	3409.3
57.5°	3083.2	3151.8	3220.4	3168.8	3119.5
60°	2804.2	2864.3	2920.6	2868.2	2830.4
62.5°	2520.6	2572.2	2620.8	2570.7	2535.2
65°	2233.8	2279.3	2319.4	2273.1	2235.4
67.5°	1948.6	1987.1	2024.1	1976.4	1937.0
70°	1663.4	1696.6	1730.5	1681.1	1644.9
72.5°	1382.1	1411.4	1441.4	1393.6	1362.0
75°	1108.4	1133.9	1158.5	1116.1	1091.5
77.5°	847.1	868.7	885.7	858.7	834.8
80°	604.3	620.5	630.5	619.7	597.4
82.5°	388.5	400.1	405.4	404.7	390.0
85°	211.2	215.1	225.1	227.4	219.7
87.5°	81.7	87.1	89.4	96.4	88.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)