

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: P489566

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-5STD-30-120-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: P489566
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-30-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

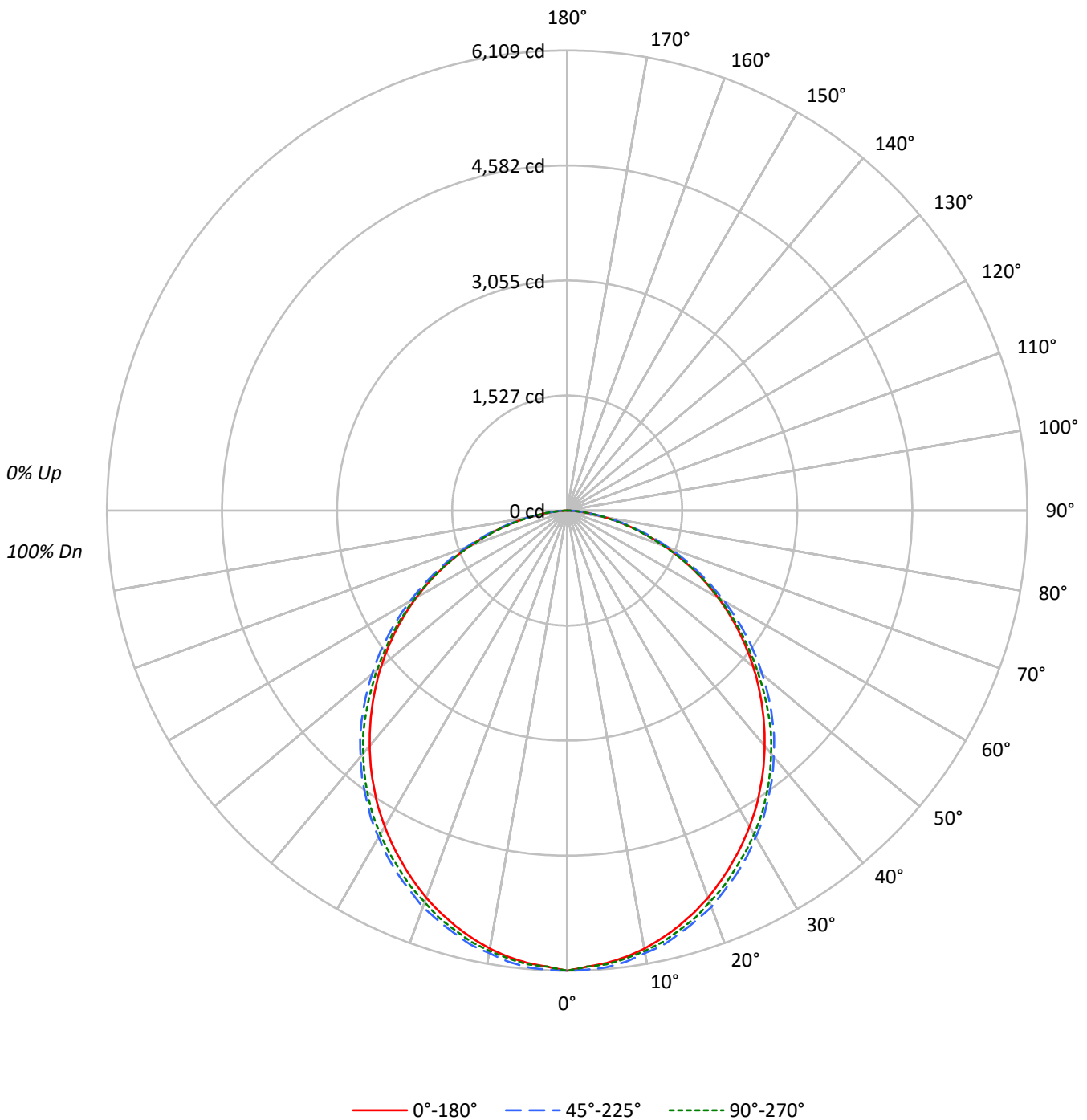
Lumens per Lamp: N/A
Luminaire Lumens: 16060.6 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	8219	8219	8219
5°	8143	8220	8169
10°	8069	8151	8111
15°	7957	8086	8029
20°	7832	8018	7921
25°	7679	7902	7811
30°	7524	7779	7708
35°	7355	7646	7575
40°	7164	7493	7398
45°	6963	7314	7176
50°	6753	7080	6895
55°	6508	6813	6604
60°	6231	6490	6289
65°	5872	6097	5876
70°	5403	5621	5343
75°	4758	4973	4685
80°	3866	4034	3822
85°	2692	2870	2800



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	575.3	3.6
10°-20°	1630.4	10.2
20°-30°	2431.6	15.1
30°-40°	2881.5	17.9
40°-50°	2915.7	18.2
50°-60°	2546.4	15.9
60°-70°	1860.8	11.6
70°-80°	990.1	6.2
80°-90°	228.8	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°	4637.3	28.9
0°-40°	7518.8	46.8
0°-60°	12980.9	80.8
0°-90°	16060.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16060.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6109	6109	6109	6109	6109	
5°	6029	6041	6086	6100	6048	572
15°	5712	5750	5805	5840	5764	1610
25°	5173	5236	5323	5343	5262	2383
35°	4478	4548	4655	4688	4612	2800
45°	3659	3724	3844	3847	3771	2823
55°	2774	2830	2904	2862	2815	2480
65°	1844	1882	1915	1877	1846	1825
75°	915	936	957	922	901	973
85°	174	178	186	188	181	221
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6108.9	6108.9	6108.9	6108.9	6108.9
2.5°	6061.1	6080.9	6101.2	6110.2	6060.5
5°	6029.3	6040.8	6086.0	6100.0	6048.4
7.5°	5977.1	5994.3	6038.2	6044.6	5995.0
10°	5905.8	5936.4	5965.7	5997.5	5937.0
12.5°	5814.8	5856.2	5905.8	5911.6	5865.7
15°	5712.4	5750.5	5804.6	5839.7	5763.9
17.5°	5597.8	5634.7	5704.7	5711.1	5665.3
20°	5469.9	5515.7	5599.7	5614.3	5532.2
22.5°	5324.7	5386.5	5456.5	5470.5	5410.0
25°	5172.6	5236.3	5322.8	5342.6	5261.7
27.5°	5013.5	5074.6	5172.0	5186.0	5117.9
30°	4842.9	4900.2	5007.1	5030.7	4961.3
32.5°	4669.8	4727.1	4845.5	4865.2	4797.7
35°	4477.6	4547.6	4655.2	4687.6	4611.9
37.5°	4281.6	4349.7	4471.9	4501.1	4419.7
40°	4078.5	4146.0	4266.3	4290.5	4212.2
42.5°	3871.0	3938.5	4067.1	4070.9	4006.0
45°	3659.1	3724.0	3843.7	3846.9	3771.1
47.5°	3444.0	3509.5	3616.4	3604.4	3533.1
50°	3226.3	3288.7	3382.2	3358.0	3293.8
52.5°	3001.0	3061.4	3149.9	3110.5	3050.0
55°	2774.4	2830.4	2904.2	2862.2	2815.1
57.5°	2545.9	2602.5	2659.2	2616.5	2575.8
60°	2315.5	2365.1	2411.6	2368.3	2337.1
62.5°	2081.3	2123.9	2164.0	2122.6	2093.4
65°	1844.5	1882.1	1915.2	1877.0	1845.8
67.5°	1609.0	1640.8	1671.4	1631.9	1599.5
70°	1373.5	1400.9	1428.9	1388.2	1358.2
72.5°	1141.2	1165.4	1190.2	1150.7	1124.7
75°	915.3	936.3	956.6	921.6	901.2
77.5°	699.5	717.3	731.3	709.0	689.3
80°	499.0	512.4	520.6	511.7	493.3
82.5°	320.8	330.3	334.8	334.1	322.1
85°	174.4	177.6	185.9	187.8	181.4
87.5°	67.5	71.9	73.8	79.6	73.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)