

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: P489567

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-5STD-30-120-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: P489567
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
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

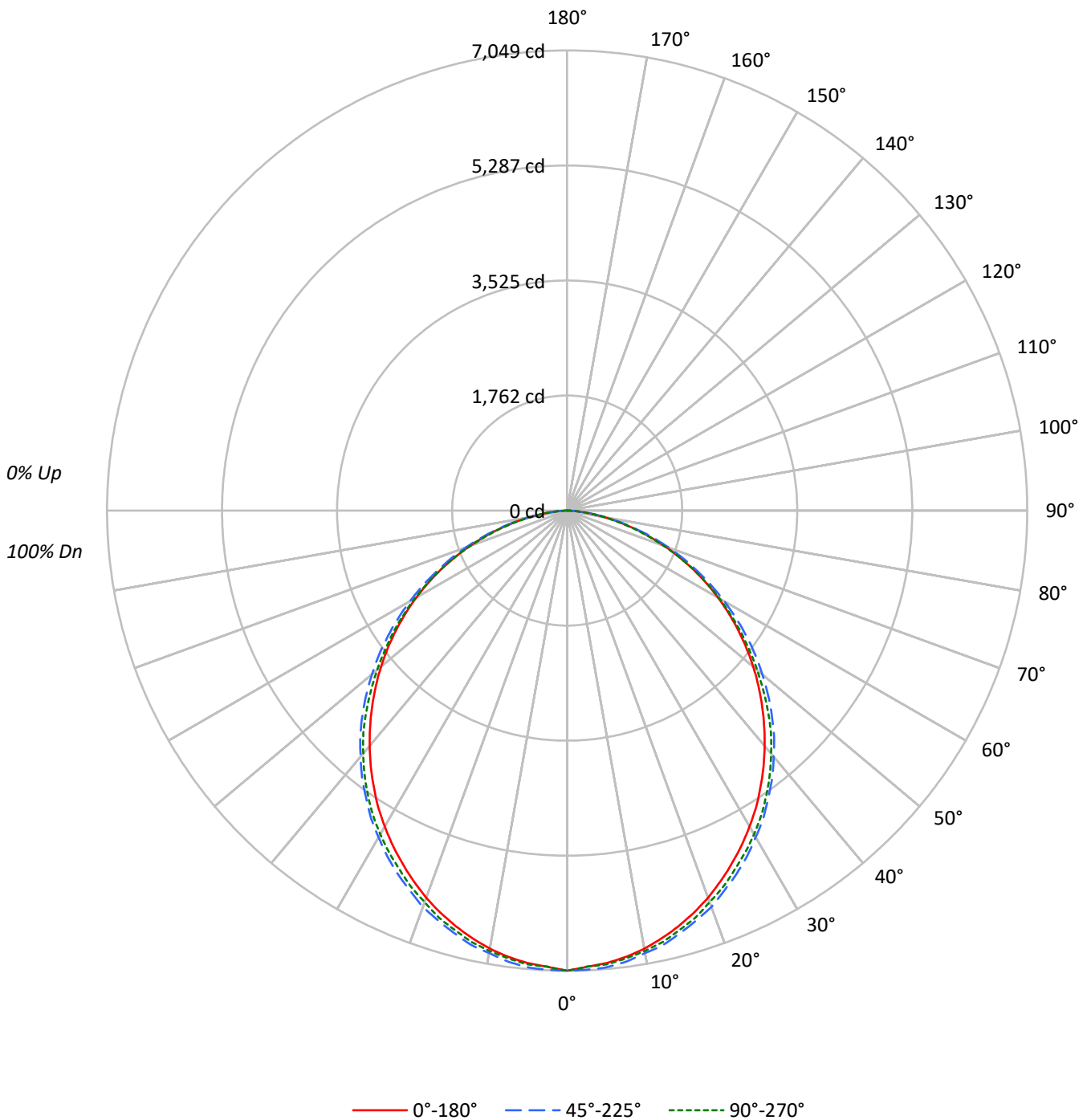
Lumens per Lamp: N/A
Luminaire Lumens: 18531.7 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P489567

CATALOG NUMBER: CLM-24-4-INS-A12125-LD4-5STD-30-120-EDD

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	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°	9484	9484	9484
5°	9396	9485	9426
10°	9310	9405	9359
15°	9181	9330	9264
20°	9037	9252	9140
25°	8861	9118	9013
30°	8682	8976	8894
35°	8486	8823	8741
40°	8266	8646	8537
45°	8034	8439	8280
50°	7792	8169	7955
55°	7510	7861	7620
60°	7190	7488	7257
65°	6776	7035	6781
70°	6235	6486	6165
75°	5490	5738	5406
80°	4462	4654	4410
85°	3106	3310	3231



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	663.9	3.6
10°-20°	1881.2	10.2
20°-30°	2805.8	15.1
30°-40°	3324.9	17.9
40°-50°	3364.2	18.2
50°-60°	2938.2	15.9
60°-70°	2147.1	11.6
70°-80°	1142.4	6.2
80°-90°	264.0	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°	5350.8	28.9
0°-40°	8675.7	46.8
0°-60°	14978.1	80.8
0°-90°	18531.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18531.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7049	7049	7049	7049	7049	
5°	6957	6970	7022	7038	6979	660
15°	6591	6635	6698	6738	6651	1858
25°	5968	6042	6142	6165	6071	2750
35°	5166	5247	5371	5409	5322	3231
45°	4222	4297	4435	4439	4351	3257
55°	3201	3266	3351	3303	3248	2862
65°	2128	2172	2210	2166	2130	2106
75°	1056	1080	1104	1063	1040	1123
85°	201	205	214	217	209	255
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7048.8	7048.8	7048.8	7048.8	7048.8
2.5°	6993.7	7016.5	7040.0	7050.3	6993.0
5°	6957.0	6970.2	7022.4	7038.5	6979.0
7.5°	6896.8	6916.6	6967.3	6974.6	6917.3
10°	6814.5	6849.8	6883.6	6920.3	6850.5
12.5°	6709.5	6757.2	6814.5	6821.1	6768.3
15°	6591.3	6635.3	6697.8	6738.1	6650.8
17.5°	6459.1	6501.7	6582.5	6589.8	6536.9
20°	6311.5	6364.3	6461.3	6478.2	6383.4
22.5°	6144.0	6215.3	6296.0	6312.2	6242.4
25°	5968.5	6041.9	6141.8	6164.6	6071.3
27.5°	5784.9	5855.4	5967.8	5983.9	5905.3
30°	5588.1	5654.2	5777.5	5804.7	5724.7
32.5°	5388.3	5454.4	5591.0	5613.8	5535.9
35°	5166.5	5247.3	5371.4	5408.9	5321.5
37.5°	4940.3	5018.9	5159.9	5193.7	5099.7
40°	4706.1	4783.9	4922.7	4950.6	4860.3
42.5°	4466.6	4544.5	4692.8	4697.2	4622.3
45°	4222.1	4297.0	4435.1	4438.7	4351.3
47.5°	3973.9	4049.5	4172.9	4158.9	4076.7
50°	3722.7	3794.7	3902.6	3874.7	3800.5
52.5°	3462.7	3532.5	3634.6	3589.0	3519.3
55°	3201.3	3265.9	3351.1	3302.6	3248.3
57.5°	2937.6	3003.0	3068.3	3019.1	2972.1
60°	2671.8	2729.0	2782.7	2732.7	2696.7
62.5°	2401.5	2450.7	2497.0	2449.2	2415.5
65°	2128.3	2171.6	2209.8	2165.8	2129.8
67.5°	1856.6	1893.3	1928.5	1883.0	1845.6
70°	1584.8	1616.4	1648.7	1601.7	1567.2
72.5°	1316.8	1344.7	1373.3	1327.8	1297.7
75°	1056.1	1080.3	1103.8	1063.4	1039.9
77.5°	807.1	827.7	843.8	818.1	795.4
80°	575.8	591.2	600.7	590.5	569.2
82.5°	370.1	381.2	386.3	385.6	371.6
85°	201.2	204.9	214.4	216.6	209.3
87.5°	77.8	83.0	85.2	91.8	84.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)