

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: P489511

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-4HI-40-120-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: P489511
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-LD4-4HI-40-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

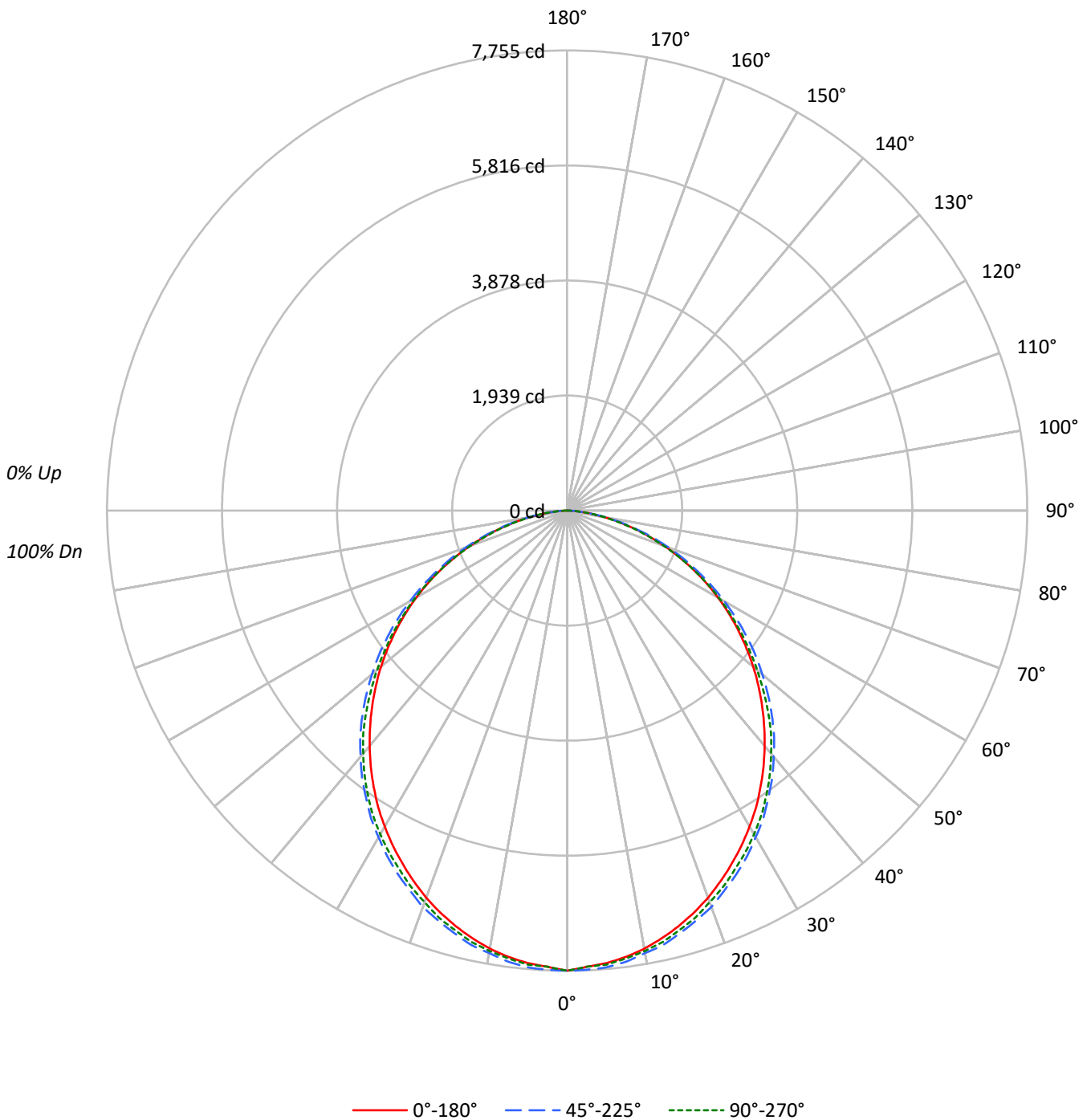
Lumens per Lamp: N/A
Luminaire Lumens: 20388.3 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 172.8
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°	10434	10434	10434
5°	10338	10435	10370
10°	10243	10347	10297
15°	10101	10264	10192
20°	9942	10178	10056
25°	9748	10031	9916
30°	9552	9876	9785
35°	9336	9707	9616
40°	9094	9513	9392
45°	8839	9285	9109
50°	8573	8987	8752
55°	8262	8648	8383
60°	7910	8238	7984
65°	7455	7740	7460
70°	6859	7136	6783
75°	6040	6313	5948
80°	4909	5121	4852
85°	3418	3642	3555



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	730.4	3.6
10°-20°	2069.7	10.2
20°-30°	3086.9	15.1
30°-40°	3658.0	17.9
40°-50°	3701.3	18.2
50°-60°	3232.5	15.9
60°-70°	2362.2	11.6
70°-80°	1256.9	6.2
80°-90°	290.5	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°	5886.9	28.9
0°-40°	9544.9	46.8
0°-60°	16478.7	80.8
0°-90°	20388.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20388.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7755	7755	7755	7755	7755	
5°	7654	7668	7726	7744	7678	726
15°	7252	7300	7369	7413	7317	2044
25°	6566	6647	6757	6782	6680	3025
35°	5684	5773	5910	5951	5855	3555
45°	4645	4728	4879	4883	4787	3583
55°	3522	3593	3687	3634	3574	3148
65°	2342	2389	2431	2383	2343	2317
75°	1162	1188	1214	1170	1144	1235
85°	221	225	236	238	230	280
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7755.0	7755.0	7755.0	7755.0	7755.0
2.5°	7694.4	7719.4	7745.3	7756.6	7693.6
5°	7654.0	7668.5	7725.9	7743.7	7678.2
7.5°	7587.7	7609.5	7665.3	7673.4	7610.4
10°	7497.2	7536.0	7573.2	7613.6	7536.8
12.5°	7381.7	7434.2	7497.2	7504.5	7446.3
15°	7251.6	7300.1	7368.8	7413.2	7317.1
17.5°	7106.2	7153.0	7241.9	7250.0	7191.8
20°	6943.8	7001.9	7108.6	7127.2	7023.0
22.5°	6759.6	6837.9	6926.8	6944.6	6867.8
25°	6566.4	6647.2	6757.1	6782.2	6679.6
27.5°	6364.5	6442.0	6565.6	6583.4	6497.0
30°	6147.9	6220.6	6356.4	6386.3	6298.2
32.5°	5928.1	6000.9	6151.1	6176.2	6090.5
35°	5684.1	5773.0	5909.6	5950.8	5854.6
37.5°	5435.3	5521.7	5676.9	5714.0	5610.6
40°	5177.5	5263.2	5415.9	5446.6	5347.2
42.5°	4914.1	4999.8	5163.0	5167.8	5085.4
45°	4645.1	4727.5	4879.4	4883.4	4787.3
47.5°	4372.0	4455.2	4590.9	4575.6	4485.1
50°	4095.6	4174.8	4293.6	4262.9	4181.3
52.5°	3809.6	3886.4	3998.7	3948.6	3871.8
55°	3522.0	3593.1	3686.8	3633.5	3573.7
57.5°	3231.9	3303.8	3375.7	3321.6	3269.9
60°	2939.4	3002.5	3061.4	3006.5	2966.9
62.5°	2642.1	2696.2	2747.1	2694.6	2657.4
65°	2341.5	2389.2	2431.2	2382.7	2343.1
67.5°	2042.6	2083.0	2121.8	2071.7	2030.5
70°	1743.6	1778.4	1813.9	1762.2	1724.2
72.5°	1448.7	1479.4	1510.9	1460.8	1427.7
75°	1161.9	1188.5	1214.4	1170.0	1144.1
77.5°	888.0	910.6	928.4	900.1	875.0
80°	633.5	650.4	660.9	649.6	626.2
82.5°	407.2	419.3	425.0	424.2	408.8
85°	221.4	225.4	235.9	238.4	230.3
87.5°	85.6	91.3	93.7	101.0	92.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)