

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: P489499

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-3STD-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: P489499
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-LD4-3STD-40-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

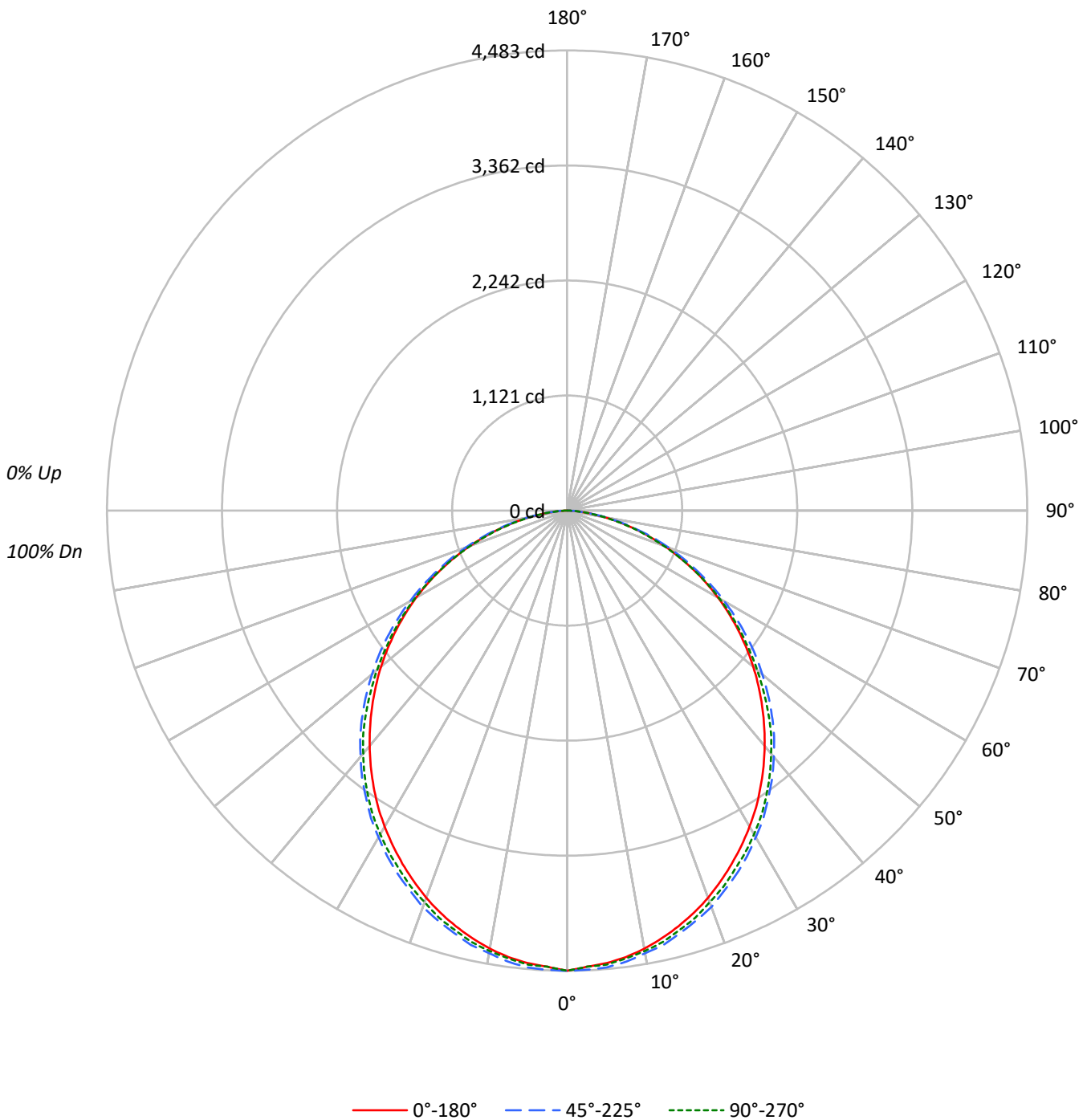
Lumens per Lamp: N/A
Luminaire Lumens: 11787.0 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 99.9
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°	6032	6032	6032
5°	5977	6033	5995
10°	5922	5982	5953
15°	5840	5934	5892
20°	5748	5884	5814
25°	5636	5800	5733
30°	5522	5709	5657
35°	5398	5612	5560
40°	5257	5500	5430
45°	5110	5368	5266
50°	4956	5196	5060
55°	4776	5000	4846
60°	4573	4763	4616
65°	4310	4475	4313
70°	3965	4126	3921
75°	3492	3650	3438
80°	2837	2961	2805
85°	1976	2106	2055



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	422.2	3.6
10°-20°	1196.5	10.2
20°-30°	1784.6	15.1
30°-40°	2114.8	17.9
40°-50°	2139.8	18.2
50°-60°	1868.8	15.9
60°-70°	1365.6	11.6
70°-80°	726.6	6.2
80°-90°	167.9	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°	3403.4	28.9
0°-40°	5518.1	46.8
0°-60°	9526.8	80.8
0°-90°	11787.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11787.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4483	4483	4483	4483	4483	
5°	4425	4433	4466	4477	4439	420
15°	4192	4220	4260	4286	4230	1182
25°	3796	3843	3906	3921	3862	1749
35°	3286	3338	3416	3440	3385	2055
45°	2685	2733	2821	2823	2768	2072
55°	2036	2077	2131	2101	2066	1820
65°	1354	1381	1406	1378	1355	1340
75°	672	687	702	676	661	714
85°	128	130	136	138	133	162
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4483.4	4483.4	4483.4	4483.4	4483.4
2.5°	4448.3	4462.8	4477.7	4484.3	4447.9
5°	4425.0	4433.4	4466.5	4476.8	4439.0
7.5°	4386.7	4399.3	4431.5	4436.2	4399.7
10°	4334.3	4356.8	4378.3	4401.6	4357.2
12.5°	4267.5	4297.9	4334.3	4338.6	4304.9
15°	4192.3	4220.4	4260.1	4285.8	4230.2
17.5°	4108.3	4135.4	4186.7	4191.4	4157.8
20°	4014.4	4048.0	4109.7	4120.4	4060.2
22.5°	3907.9	3953.2	4004.6	4014.8	3970.5
25°	3796.2	3842.9	3906.5	3921.0	3861.6
27.5°	3679.5	3724.3	3795.8	3806.0	3756.1
30°	3554.3	3596.3	3674.8	3692.1	3641.1
32.5°	3427.2	3469.3	3556.1	3570.6	3521.1
35°	3286.1	3337.5	3416.5	3440.3	3384.7
37.5°	3142.3	3192.3	3281.9	3303.4	3243.6
40°	2993.3	3042.8	3131.1	3148.8	3091.4
42.5°	2841.0	2890.5	2984.9	2987.7	2940.0
45°	2685.4	2733.1	2820.9	2823.2	2767.6
47.5°	2527.6	2575.7	2654.1	2645.3	2592.9
50°	2367.8	2413.6	2482.2	2464.5	2417.3
52.5°	2202.4	2246.8	2311.7	2282.8	2238.4
55°	2036.1	2077.3	2131.4	2100.6	2066.0
57.5°	1868.5	1910.0	1951.6	1920.3	1890.4
60°	1699.4	1735.8	1769.9	1738.1	1715.2
62.5°	1527.5	1558.8	1588.2	1557.8	1536.3
65°	1353.7	1381.3	1405.5	1377.5	1354.6
67.5°	1180.9	1204.2	1226.6	1197.7	1173.9
70°	1008.0	1028.1	1048.7	1018.8	996.8
72.5°	837.5	855.3	873.5	844.5	825.4
75°	671.7	687.1	702.1	676.4	661.4
77.5°	513.4	526.4	536.7	520.4	505.9
80°	366.2	376.0	382.1	375.6	362.0
82.5°	235.4	242.4	245.7	245.2	236.4
85°	128.0	130.3	136.4	137.8	133.1
87.5°	49.5	52.8	54.2	58.4	53.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)