

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: P489521

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-4LO-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: P489521
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-LD4-4LO-35-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

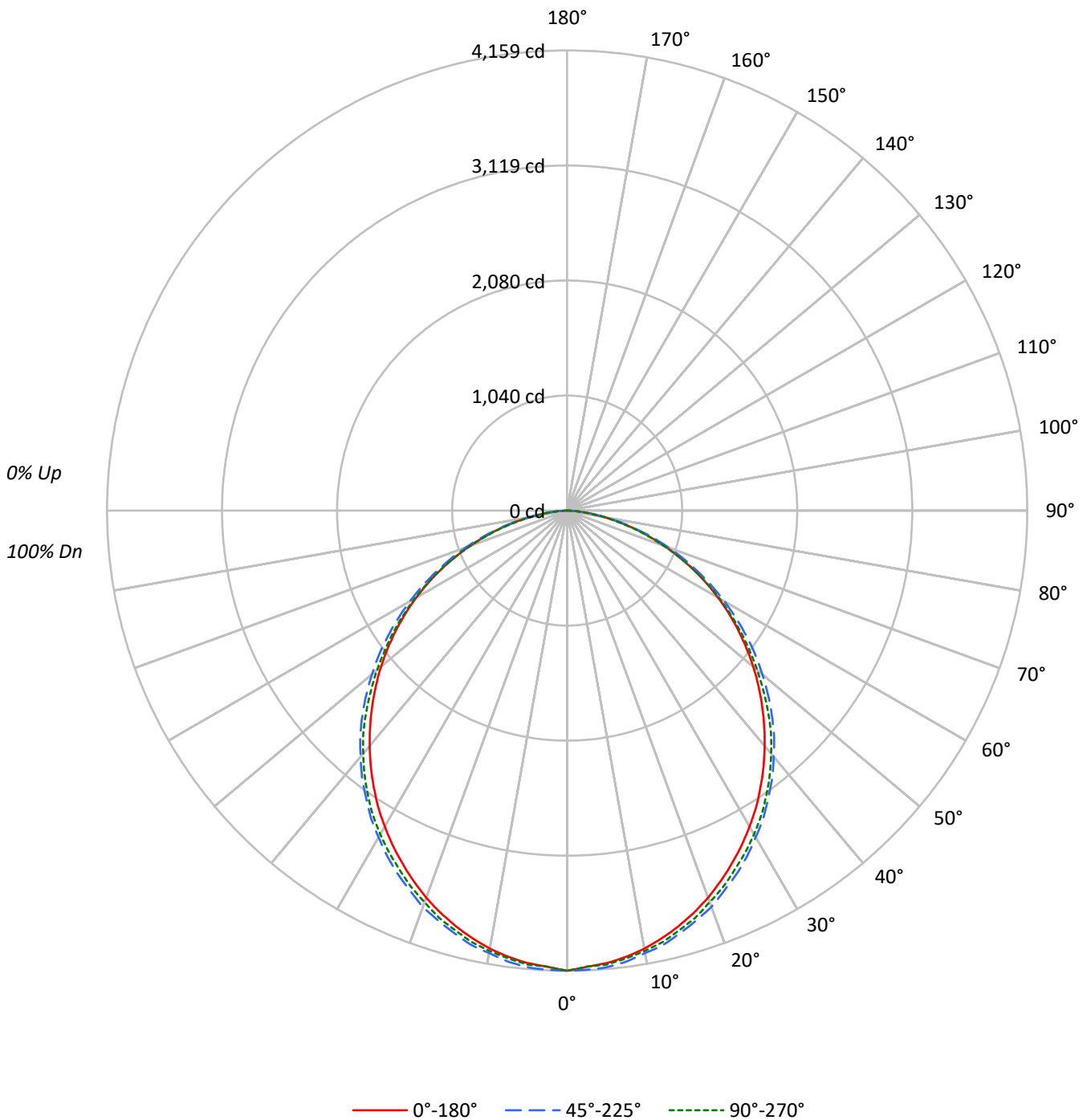
Lumens per Lamp: N/A
Luminaire Lumens: 10934.3 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 93.6
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°	5596	5596	5596
5°	5544	5596	5562
10°	5493	5549	5522
15°	5417	5505	5466
20°	5332	5459	5393
25°	5228	5380	5318
30°	5122	5296	5248
35°	5007	5206	5157
40°	4877	5102	5037
45°	4740	4979	4885
50°	4598	4820	4694
55°	4431	4638	4496
60°	4242	4418	4282
65°	3998	4151	4001
70°	3679	3827	3638
75°	3239	3386	3190
80°	2632	2747	2602
85°	1832	1953	1907



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	391.7	3.6
10°-20°	1110.0	10.2
20°-30°	1655.5	15.1
30°-40°	1961.8	17.9
40°-50°	1985.0	18.2
50°-60°	1733.6	15.9
60°-70°	1266.9	11.6
70°-80°	674.1	6.2
80°-90°	155.8	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°	3157.2	28.9
0°-40°	5119.0	46.8
0°-60°	8837.6	80.8
0°-90°	10934.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10934.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4159	4159	4159	4159	4159	
5°	4105	4113	4143	4153	4118	389
15°	3889	3915	3952	3976	3924	1096
25°	3522	3565	3624	3637	3582	1622
35°	3048	3096	3169	3191	3140	1906
45°	2491	2535	2617	2619	2567	1922
55°	1889	1927	1977	1949	1917	1688
65°	1256	1281	1304	1278	1257	1243
75°	623	637	651	627	614	662
85°	119	121	126	128	124	150
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4159.0	4159.0	4159.0	4159.0	4159.0
2.5°	4126.5	4140.0	4153.8	4159.9	4126.1
5°	4104.9	4112.7	4143.4	4153.0	4117.9
7.5°	4069.3	4081.0	4110.9	4115.3	4081.5
10°	4020.8	4041.6	4061.5	4083.2	4042.0
12.5°	3958.8	3987.0	4020.8	4024.7	3993.5
15°	3889.1	3915.1	3951.9	3975.7	3924.2
17.5°	3811.1	3836.2	3883.9	3888.2	3857.0
20°	3724.0	3755.2	3812.4	3822.3	3766.4
22.5°	3625.2	3667.2	3714.9	3724.4	3683.2
25°	3521.6	3564.9	3623.9	3637.3	3582.3
27.5°	3413.3	3454.9	3521.2	3530.7	3484.3
30°	3297.1	3336.1	3408.9	3425.0	3377.7
32.5°	3179.3	3218.3	3298.9	3312.3	3266.4
35°	3048.4	3096.1	3169.3	3191.4	3139.8
37.5°	2915.0	2961.3	3044.5	3064.4	3009.0
40°	2776.7	2822.7	2904.6	2921.0	2867.7
42.5°	2635.5	2681.4	2768.9	2771.5	2727.3
45°	2491.2	2535.4	2616.8	2619.0	2567.4
47.5°	2344.7	2389.3	2462.1	2453.9	2405.4
50°	2196.5	2239.0	2302.7	2286.2	2242.4
52.5°	2043.1	2084.3	2144.5	2117.6	2076.5
55°	1888.8	1927.0	1977.2	1948.6	1916.6
57.5°	1733.3	1771.9	1810.4	1781.4	1753.7
60°	1576.4	1610.2	1641.9	1612.4	1591.2
62.5°	1417.0	1446.0	1473.3	1445.1	1425.2
65°	1255.8	1281.3	1303.9	1277.9	1256.6
67.5°	1095.4	1117.1	1137.9	1111.0	1088.9
70°	935.1	953.7	972.8	945.1	924.7
72.5°	776.9	793.4	810.3	783.4	765.7
75°	623.1	637.4	651.3	627.4	613.6
77.5°	476.2	488.4	497.9	482.7	469.3
80°	339.7	348.8	354.5	348.4	335.8
82.5°	218.4	224.9	227.9	227.5	219.3
85°	118.7	120.9	126.5	127.8	123.5
87.5°	45.9	49.0	50.3	54.2	49.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)