

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: P488888

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-1STD-50-120-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: P488888
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-24-2-INS-A12125-LD4-1STD-50-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

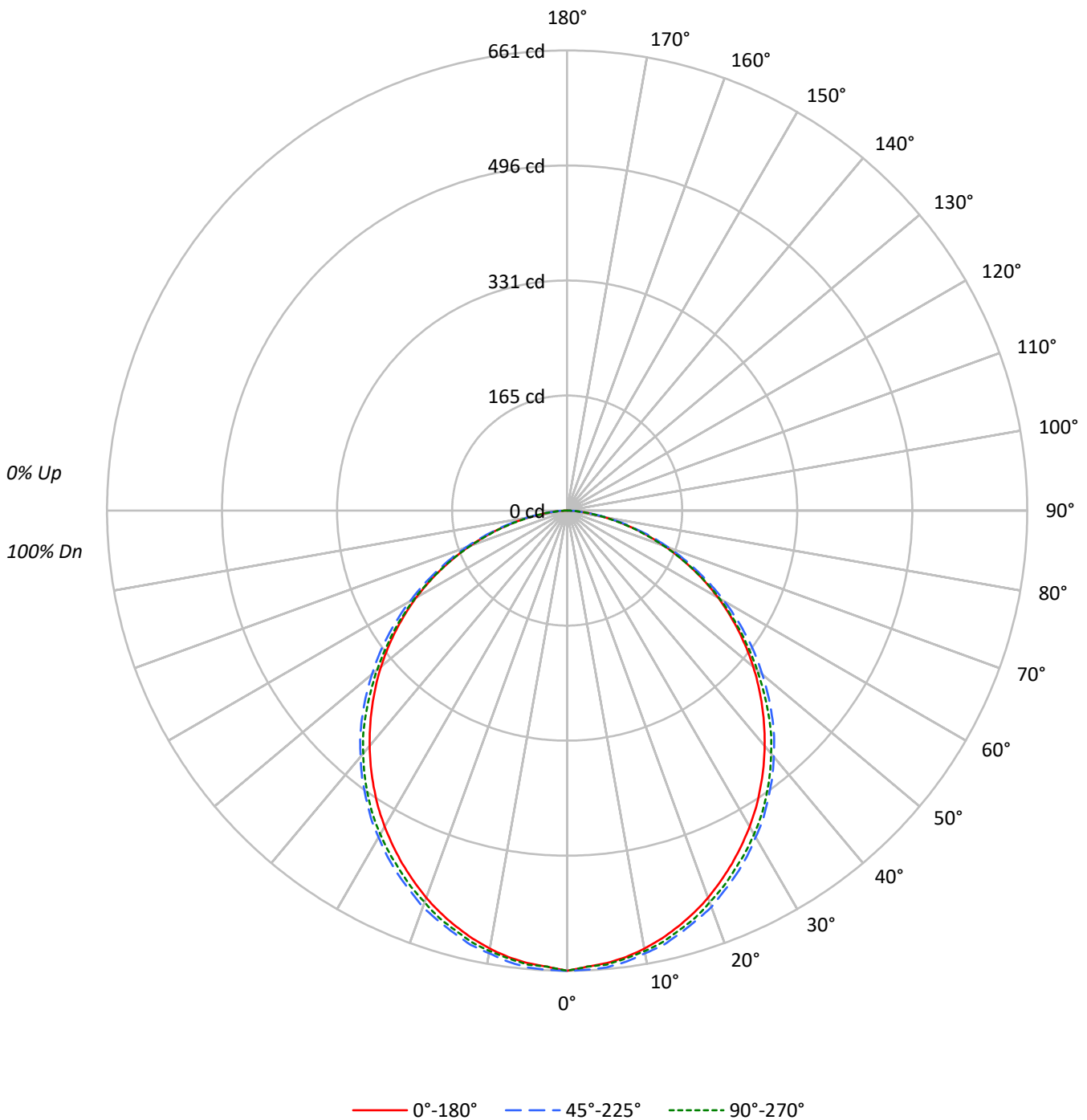
Lumens per Lamp: N/A
Luminaire Lumens: 1738.0 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
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°	1779	1779	1779
5°	1763	1779	1768
10°	1746	1764	1756
15°	1722	1750	1738
20°	1695	1735	1714
25°	1662	1710	1691
30°	1629	1684	1668
35°	1592	1655	1640
40°	1551	1622	1601
45°	1507	1583	1553
50°	1461	1532	1492
55°	1408	1475	1429
60°	1349	1405	1361
65°	1271	1319	1272
70°	1169	1216	1157
75°	1029	1076	1014
80°	837	872	828
85°	584	621	605



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.3	3.6
10°-20°	176.4	10.2
20°-30°	263.1	15.1
30°-40°	311.8	17.9
40°-50°	315.5	18.2
50°-60°	275.6	15.9
60°-70°	201.4	11.6
70°-80°	107.1	6.2
80°-90°	24.8	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°	501.8	28.9
0°-40°	813.7	46.8
0°-60°	1404.7	80.8
0°-90°	1738.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1738.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	661	661	661	661	661	
5°	652	654	659	660	654	62
15°	618	622	628	632	624	174
25°	560	567	576	578	569	258
35°	484	492	504	507	499	303
45°	396	403	416	416	408	305
55°	300	306	314	310	305	268
65°	200	204	207	203	200	198
75°	99	101	104	100	98	105
85°	19	19	20	20	20	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	661.1	661.1	661.1	661.1	661.1
2.5°	655.9	658.0	660.2	661.2	655.8
5°	652.5	653.7	658.6	660.1	654.5
7.5°	646.8	648.7	653.4	654.1	648.7
10°	639.1	642.4	645.6	649.0	642.5
12.5°	629.3	633.7	639.1	639.7	634.8
15°	618.2	622.3	628.2	631.9	623.7
17.5°	605.8	609.8	617.3	618.0	613.1
20°	591.9	596.9	606.0	607.6	598.7
22.5°	576.2	582.9	590.5	592.0	585.4
25°	559.8	566.6	576.0	578.1	569.4
27.5°	542.5	549.1	559.7	561.2	553.8
30°	524.1	530.3	541.8	544.4	536.9
32.5°	505.3	511.5	524.4	526.5	519.2
35°	484.5	492.1	503.8	507.3	499.1
37.5°	463.3	470.7	483.9	487.1	478.3
40°	441.4	448.7	461.7	464.3	455.8
42.5°	418.9	426.2	440.1	440.5	433.5
45°	396.0	403.0	415.9	416.3	408.1
47.5°	372.7	379.8	391.4	390.0	382.3
50°	349.1	355.9	366.0	363.4	356.4
52.5°	324.8	331.3	340.9	336.6	330.1
55°	300.2	306.3	314.3	309.7	304.6
57.5°	275.5	281.6	287.8	283.1	278.7
60°	250.6	255.9	261.0	256.3	252.9
62.5°	225.2	229.8	234.2	229.7	226.5
65°	199.6	203.7	207.2	203.1	199.7
67.5°	174.1	177.6	180.9	176.6	173.1
70°	148.6	151.6	154.6	150.2	147.0
72.5°	123.5	126.1	128.8	124.5	121.7
75°	99.0	101.3	103.5	99.7	97.5
77.5°	75.7	77.6	79.1	76.7	74.6
80°	54.0	55.4	56.3	55.4	53.4
82.5°	34.7	35.7	36.2	36.2	34.9
85°	18.9	19.2	20.1	20.3	19.6
87.5°	7.3	7.8	8.0	8.6	7.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)