

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: P489435

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-2HI-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: P489435
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-LD4-2HI-30-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

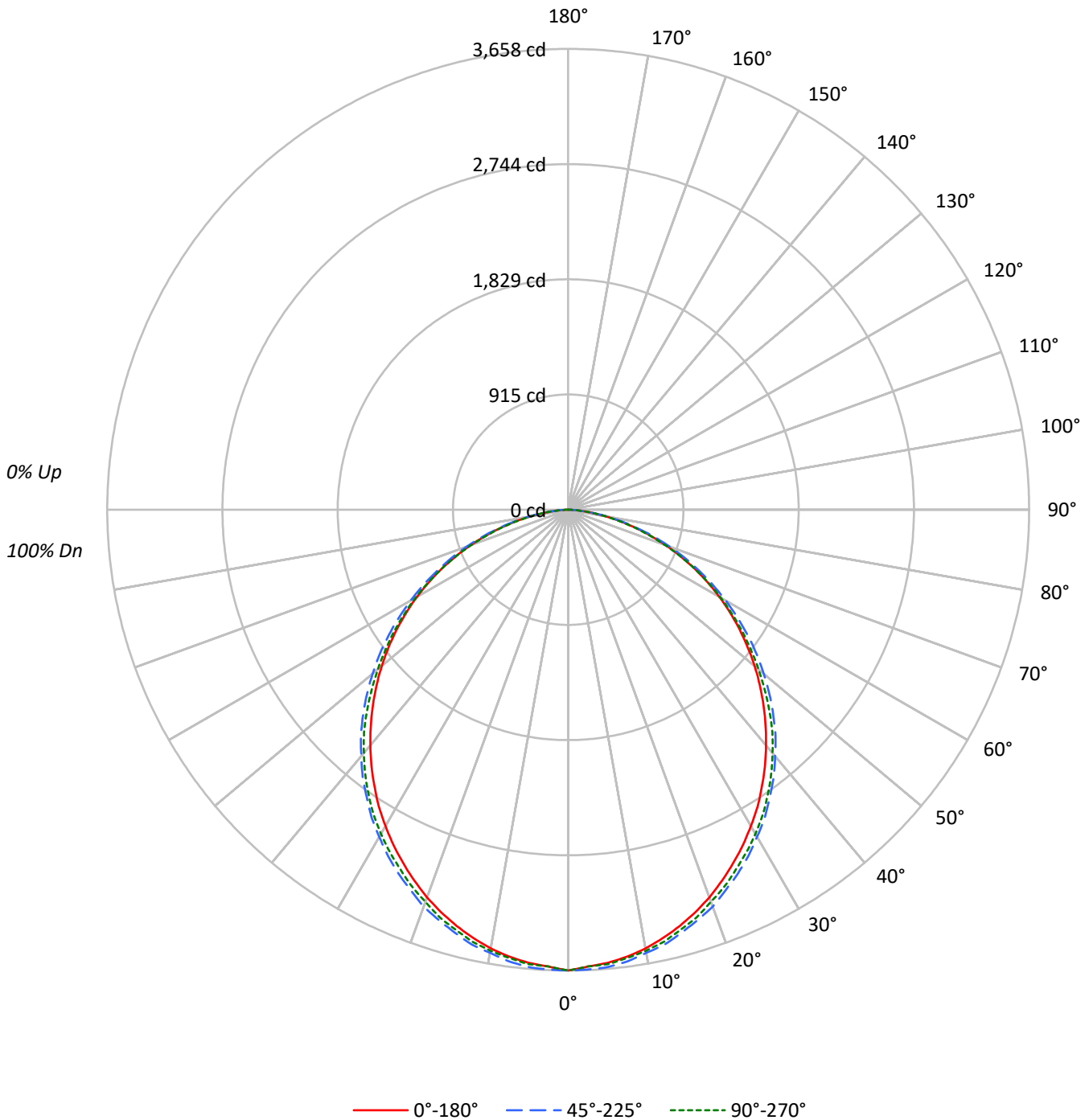
Lumens per Lamp: N/A
Luminaire Lumens: 9616.4 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 86.4
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	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					100			
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85					85			
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71					71			
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60					60			
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51					51			
5	77	64	55	48	75	63	54	48	61	53	48	59	52	47	57	51	47	45					45			
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39					39			
7	66	52	44	38	64	51	43	37	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4921	4921	4921
5°	4876	4922	4891
10°	4831	4880	4857
15°	4764	4841	4807
20°	4689	4801	4743
25°	4598	4732	4677
30°	4505	4658	4615
35°	4404	4578	4536
40°	4289	4487	4430
45°	4169	4379	4297
50°	4044	4239	4128
55°	3897	4079	3954
60°	3731	3886	3766
65°	3516	3651	3519
70°	3235	3366	3199
75°	2849	2978	2805
80°	2315	2415	2288
85°	1612	1718	1677



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.5	3.6
10°-20°	976.2	10.2
20°-30°	1456.0	15.1
30°-40°	1725.3	17.9
40°-50°	1745.8	18.2
50°-60°	1524.7	15.9
60°-70°	1114.2	11.6
70°-80°	592.8	6.2
80°-90°	137.0	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°	2776.6	28.9
0°-40°	4502.0	46.8
0°-60°	7772.4	80.8
0°-90°	9616.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9616.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3658	3658	3658	3658	3658	
5°	3610	3617	3644	3652	3622	342
15°	3420	3443	3476	3496	3451	964
25°	3097	3135	3187	3199	3150	1427
35°	2681	2723	2787	2807	2761	1677
45°	2191	2230	2301	2303	2258	1690
55°	1661	1695	1739	1714	1686	1485
65°	1104	1127	1147	1124	1105	1093
75°	548	561	573	552	540	583
85°	104	106	111	112	109	132
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3657.7	3657.7	3657.7	3657.7	3657.7
2.5°	3629.2	3641.0	3653.2	3658.5	3628.8
5°	3610.1	3617.0	3644.0	3652.4	3621.5
7.5°	3578.8	3589.1	3615.4	3619.2	3589.5
10°	3536.2	3554.5	3572.0	3591.0	3554.8
12.5°	3481.7	3506.4	3536.2	3539.6	3512.2
15°	3420.3	3443.2	3475.6	3496.5	3451.2
17.5°	3351.7	3373.8	3415.7	3419.6	3392.1
20°	3275.1	3302.6	3352.9	3361.6	3312.5
22.5°	3188.2	3225.2	3267.1	3275.5	3239.3
25°	3097.1	3135.3	3187.1	3198.9	3150.5
27.5°	3001.9	3038.5	3096.8	3105.2	3064.4
30°	2899.7	2934.0	2998.1	3012.2	2970.6
32.5°	2796.1	2830.4	2901.3	2913.1	2872.7
35°	2681.0	2722.9	2787.3	2806.8	2761.4
37.5°	2563.6	2604.4	2677.6	2695.1	2646.3
40°	2442.0	2482.4	2554.5	2569.0	2522.1
42.5°	2317.8	2358.2	2435.2	2437.5	2398.6
45°	2190.9	2229.8	2301.4	2303.3	2258.0
47.5°	2062.1	2101.4	2165.4	2158.1	2115.5
50°	1931.8	1969.1	2025.1	2010.6	1972.2
52.5°	1796.9	1833.1	1886.0	1862.4	1826.2
55°	1661.2	1694.7	1738.9	1713.8	1685.6
57.5°	1524.4	1558.3	1592.2	1566.7	1542.3
60°	1386.4	1416.1	1444.0	1418.0	1399.4
62.5°	1246.2	1271.7	1295.7	1270.9	1253.4
65°	1104.4	1126.9	1146.7	1123.8	1105.2
67.5°	963.4	982.5	1000.8	977.1	957.7
70°	822.4	838.8	855.6	831.2	813.3
72.5°	683.3	697.8	712.6	689.0	673.4
75°	548.0	560.6	572.8	551.8	539.6
77.5°	418.8	429.5	437.9	424.5	412.7
80°	298.8	306.8	311.7	306.4	295.3
82.5°	192.1	197.8	200.5	200.1	192.8
85°	104.4	106.3	111.3	112.4	108.6
87.5°	40.4	43.1	44.2	47.6	43.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)