

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: P489401

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-1HI-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: P489401
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-LD4-1HI-35-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

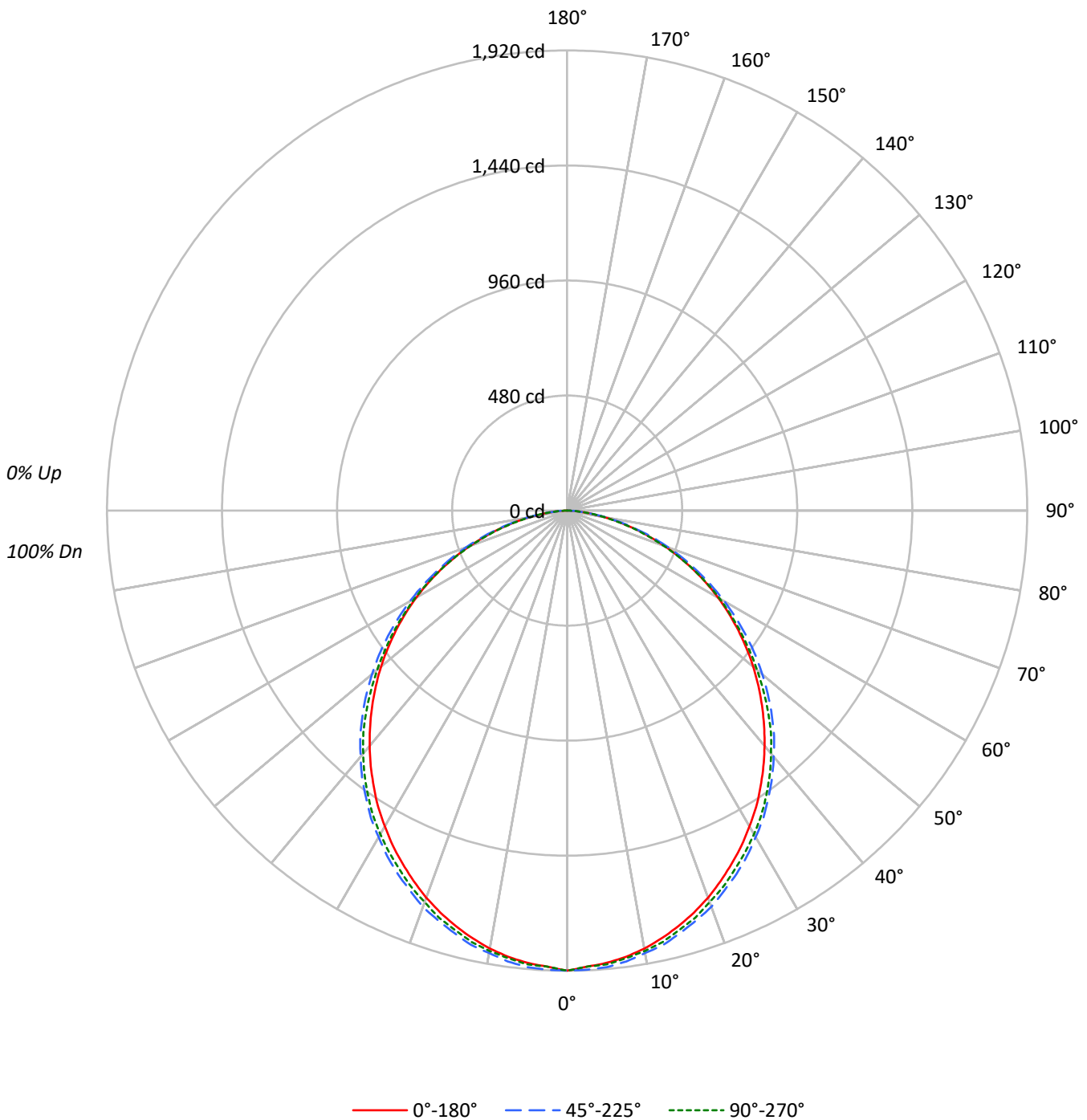
Lumens per Lamp: N/A
Luminaire Lumens: 5046.7 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
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°	2583	2583	2583
5°	2559	2583	2567
10°	2535	2561	2549
15°	2500	2541	2523
20°	2461	2519	2489
25°	2413	2483	2455
30°	2364	2444	2422
35°	2311	2403	2380
40°	2251	2355	2325
45°	2188	2298	2255
50°	2122	2225	2166
55°	2045	2141	2075
60°	1958	2039	1976
65°	1845	1916	1847
70°	1698	1766	1679
75°	1495	1563	1472
80°	1215	1268	1201
85°	846	902	880



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.8	3.6
10°-20°	512.3	10.2
20°-30°	764.1	15.1
30°-40°	905.5	17.9
40°-50°	916.2	18.2
50°-60°	800.2	15.9
60°-70°	584.7	11.6
70°-80°	311.1	6.2
80°-90°	71.9	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°	1457.2	28.9
0°-40°	2362.6	46.8
0°-60°	4079.0	80.8
0°-90°	5046.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5046.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1920	1920	1920	1920	1920	
5°	1894	1898	1912	1917	1900	180
15°	1795	1807	1824	1835	1811	506
25°	1625	1645	1673	1679	1653	749
35°	1407	1429	1463	1473	1449	880
45°	1150	1170	1208	1209	1185	887
55°	872	889	913	899	885	779
65°	580	591	602	590	580	574
75°	288	294	301	290	283	306
85°	55	56	58	59	57	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1919.5	1919.5	1919.5	1919.5	1919.5
2.5°	1904.5	1910.7	1917.1	1919.9	1904.3
5°	1894.5	1898.1	1912.3	1916.7	1900.5
7.5°	1878.1	1883.5	1897.3	1899.3	1883.7
10°	1855.7	1865.3	1874.5	1884.5	1865.5
12.5°	1827.1	1840.1	1855.7	1857.5	1843.1
15°	1795.0	1807.0	1823.9	1834.9	1811.2
17.5°	1759.0	1770.6	1792.6	1794.6	1780.2
20°	1718.8	1733.2	1759.6	1764.2	1738.4
22.5°	1673.2	1692.6	1714.6	1719.0	1700.0
25°	1625.4	1645.4	1672.6	1678.8	1653.4
27.5°	1575.4	1594.6	1625.2	1629.6	1608.2
30°	1521.8	1539.8	1573.4	1580.8	1559.0
32.5°	1467.4	1485.4	1522.6	1528.8	1507.6
35°	1407.0	1429.0	1462.8	1473.0	1449.2
37.5°	1345.4	1366.8	1405.2	1414.4	1388.8
40°	1281.6	1302.8	1340.6	1348.2	1323.6
42.5°	1216.4	1237.6	1278.0	1279.2	1258.8
45°	1149.8	1170.2	1207.8	1208.8	1185.0
47.5°	1082.2	1102.8	1136.4	1132.6	1110.2
50°	1013.8	1033.4	1062.8	1055.2	1035.0
52.5°	943.0	962.0	989.8	977.4	958.4
55°	871.8	889.4	912.6	899.4	884.6
57.5°	800.0	817.8	835.6	822.2	809.4
60°	727.6	743.2	757.8	744.2	734.4
62.5°	654.0	667.4	680.0	667.0	657.8
65°	579.6	591.4	601.8	589.8	580.0
67.5°	505.6	515.6	525.2	512.8	502.6
70°	431.6	440.2	449.0	436.2	426.8
72.5°	358.6	366.2	374.0	361.6	353.4
75°	287.6	294.2	300.6	289.6	283.2
77.5°	219.8	225.4	229.8	222.8	216.6
80°	156.8	161.0	163.6	160.8	155.0
82.5°	100.8	103.8	105.2	105.0	101.2
85°	54.8	55.8	58.4	59.0	57.0
87.5°	21.2	22.6	23.2	25.0	23.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)