

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: P488936

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-3HI-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: P488936
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-LD4-3HI-50-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

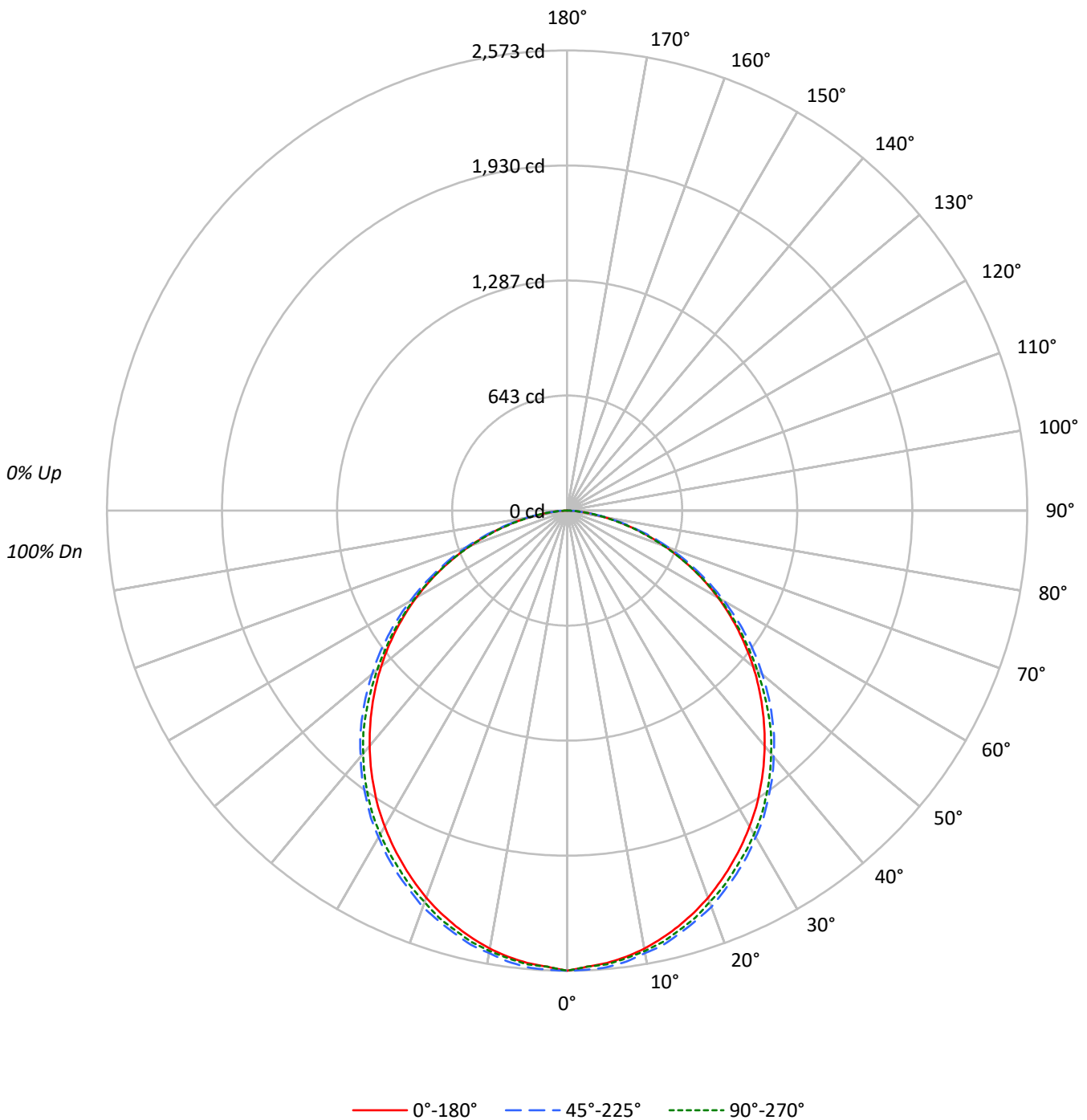
Lumens per Lamp: N/A
Luminaire Lumens: 6764.3 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 64.8
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°	6924	6924	6924
5°	6860	6924	6881
10°	6797	6866	6833
15°	6703	6811	6763
20°	6597	6754	6672
25°	6469	6656	6580
30°	6338	6553	6493
35°	6195	6441	6381
40°	6034	6312	6232
45°	5865	6161	6044
50°	5689	5964	5807
55°	5482	5739	5563
60°	5248	5466	5297
65°	4947	5136	4950
70°	4552	4735	4501
75°	4008	4189	3947
80°	3257	3398	3220
85°	2269	2418	2359



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.3	3.6
10°-20°	686.7	10.2
20°-30°	1024.1	15.1
30°-40°	1213.6	17.9
40°-50°	1228.0	18.2
50°-60°	1072.5	15.9
60°-70°	783.7	11.6
70°-80°	417.0	6.2
80°-90°	96.4	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
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0°-30°	1953.1	28.9
0°-40°	3166.7	46.8
0°-60°	5467.2	80.8
0°-90°	6764.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6764.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2573	2573	2573	2573	2573	
5°	2539	2544	2563	2569	2547	241
15°	2406	2422	2445	2460	2428	678
25°	2179	2205	2242	2250	2216	1004
35°	1886	1915	1961	1974	1942	1179
45°	1541	1568	1619	1620	1588	1189
55°	1168	1192	1223	1206	1186	1045
65°	777	793	807	790	777	769
75°	386	394	403	388	380	410
85°	74	75	78	79	76	93
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2572.9	2572.9	2572.9	2572.9	2572.9
2.5°	2552.8	2561.1	2569.7	2573.4	2552.5
5°	2539.4	2544.2	2563.2	2569.1	2547.4
7.5°	2517.4	2524.6	2543.1	2545.8	2524.9
10°	2487.4	2500.3	2512.6	2526.0	2500.5
12.5°	2449.1	2466.5	2487.4	2489.8	2470.5
15°	2405.9	2422.0	2444.8	2459.5	2427.6
17.5°	2357.6	2373.2	2402.7	2405.4	2386.1
20°	2303.8	2323.1	2358.4	2364.6	2330.0
22.5°	2242.6	2268.6	2298.1	2304.0	2278.6
25°	2178.6	2205.4	2241.8	2250.1	2216.1
27.5°	2111.6	2137.3	2178.3	2184.2	2155.5
30°	2039.7	2063.8	2108.9	2118.8	2089.6
32.5°	1966.8	1990.9	2040.8	2049.1	2020.7
35°	1885.8	1915.3	1960.6	1974.3	1942.4
37.5°	1803.3	1832.0	1883.4	1895.8	1861.5
40°	1717.8	1746.2	1796.8	1807.0	1774.1
42.5°	1630.4	1658.8	1712.9	1714.6	1687.2
45°	1541.1	1568.5	1618.9	1620.2	1588.3
47.5°	1450.5	1478.1	1523.2	1518.1	1488.0
50°	1358.8	1385.1	1424.5	1414.3	1387.2
52.5°	1263.9	1289.4	1326.7	1310.0	1284.6
55°	1168.5	1192.1	1223.2	1205.5	1185.7
57.5°	1072.3	1096.1	1120.0	1102.0	1084.9
60°	975.2	996.1	1015.7	997.5	984.3
62.5°	876.6	894.5	911.4	894.0	881.7
65°	776.9	792.7	806.6	790.5	777.4
67.5°	677.7	691.1	703.9	687.3	673.7
70°	578.5	590.0	601.8	584.7	572.1
72.5°	480.6	490.8	501.3	484.7	473.7
75°	385.5	394.3	402.9	388.2	379.6
77.5°	294.6	302.1	308.0	298.6	290.3
80°	210.2	215.8	219.3	215.5	207.8
82.5°	135.1	139.1	141.0	140.7	135.6
85°	73.5	74.8	78.3	79.1	76.4
87.5°	28.4	30.3	31.1	33.5	30.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)