

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: P489356

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-4STD-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: P489356
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P387254)
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-P12125-LD4-4STD-50-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

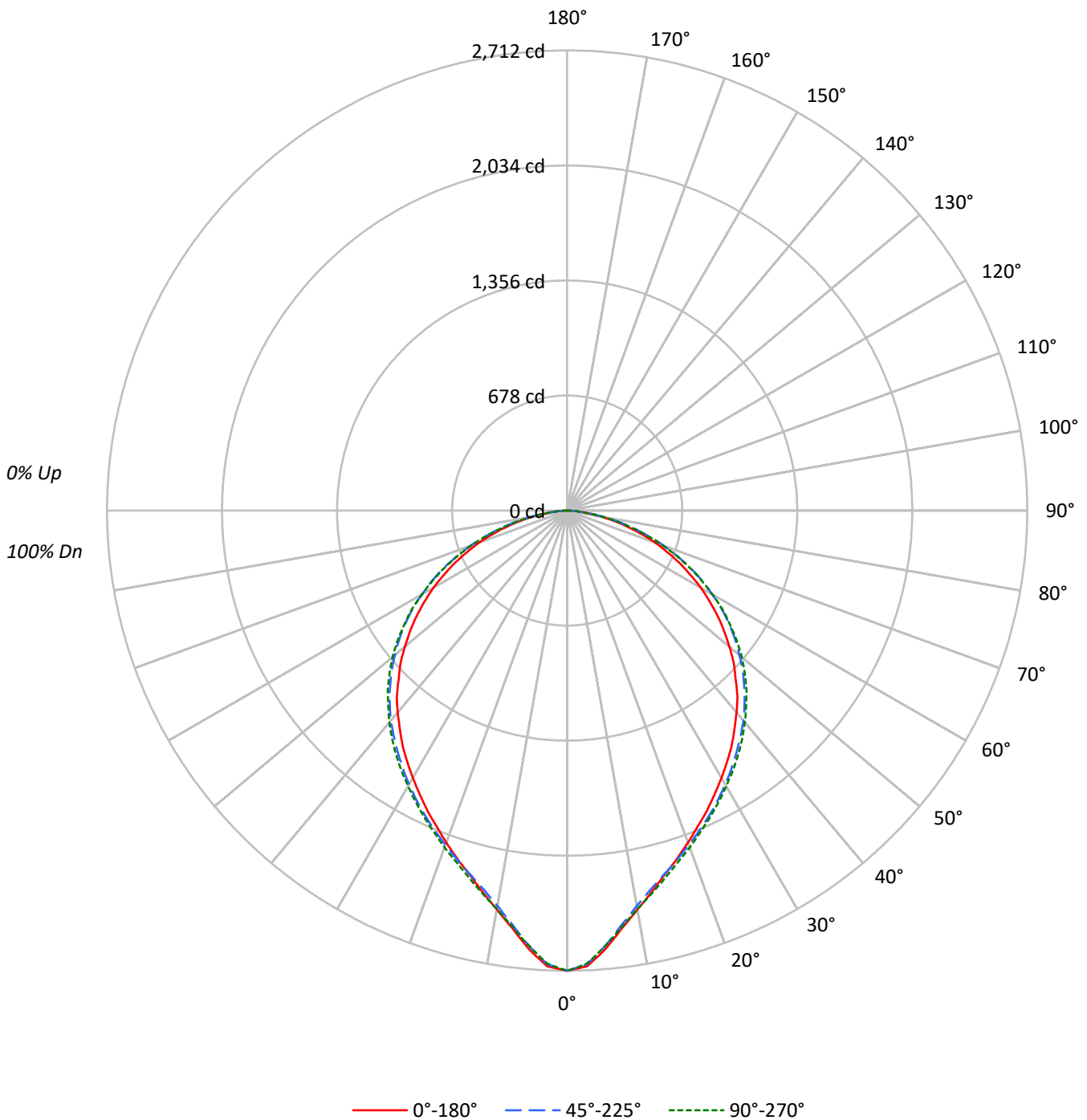
Lumens per Lamp: N/A
Luminaire Lumens: 6299.0 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7297	7297	7297
5°	7007	6957	6957
10°	6521	6462	6512
15°	6188	6177	6237
20°	5961	6004	6050
25°	5790	5885	5919
30°	5651	5790	5826
35°	5554	5716	5774
40°	5456	5677	5724
45°	5343	5622	5689
50°	5225	5552	5625
55°	5080	5471	5493
60°	4898	5321	5310
65°	4642	5117	5082
70°	4334	4772	4713
75°	3825	4227	4185
80°	3109	3445	3276
85°	2155	2195	2112



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.6	3.8
10°-20°	627.7	10.0
20°-30°	912.7	14.5
30°-40°	1086.1	17.2
40°-50°	1127.8	17.9
50°-60°	1021.7	16.2
60°-70°	771.0	12.2
70°-80°	420.1	6.7
80°-90°	92.3	1.5
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°	1780.0	28.3
0°-40°	2866.1	45.5
0°-60°	5015.6	79.6
0°-90°	6299.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6299.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2712	2712	2712	2712	2712	
5°	2594	2588	2576	2574	2576	241
15°	2221	2216	2217	2232	2239	627
25°	1950	1966	1982	1998	1994	899
35°	1691	1711	1740	1767	1758	1057
45°	1404	1429	1477	1494	1495	1085
55°	1083	1109	1166	1174	1171	967
65°	729	750	804	802	798	721
75°	368	383	407	409	402	392
85°	70	70	71	70	68	88
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2711.8	2711.8	2711.8	2711.8	2711.8
2.5°	2688.1	2685.4	2676.6	2673.2	2672.5
5°	2593.9	2587.8	2575.6	2574.3	2575.6
7.5°	2481.4	2474.6	2462.5	2467.2	2473.3
10°	2386.6	2369.6	2364.8	2371.6	2383.2
12.5°	2301.8	2288.3	2284.2	2301.8	2310.0
15°	2221.2	2215.8	2217.2	2232.1	2238.8
17.5°	2151.4	2148.0	2156.9	2168.4	2171.8
20°	2081.6	2088.4	2096.5	2108.8	2112.8
22.5°	2013.2	2026.0	2039.6	2055.9	2050.5
25°	1950.2	1966.4	1982.0	1998.3	1993.6
27.5°	1883.1	1902.0	1923.7	1941.4	1934.6
30°	1818.7	1842.4	1863.4	1885.1	1875.0
32.5°	1755.0	1777.4	1802.4	1828.9	1817.4
35°	1690.6	1711.0	1740.1	1766.6	1757.7
37.5°	1619.5	1644.6	1677.7	1700.8	1694.7
40°	1553.1	1576.1	1616.1	1631.0	1629.6
42.5°	1486.0	1505.0	1547.0	1563.9	1561.2
45°	1404.0	1429.1	1477.2	1493.5	1494.8
47.5°	1331.5	1352.5	1404.0	1416.9	1419.6
50°	1248.2	1274.6	1326.1	1341.7	1343.7
52.5°	1166.1	1194.6	1247.5	1258.3	1260.4
55°	1082.8	1108.6	1166.1	1174.3	1170.9
57.5°	995.4	1026.6	1079.5	1083.5	1086.9
60°	910.0	937.1	988.6	994.0	986.6
62.5°	817.2	845.0	897.9	899.2	893.1
65°	729.1	750.1	803.6	802.3	798.2
67.5°	636.9	662.7	702.0	703.3	700.0
70°	550.9	568.5	606.5	607.2	599.0
72.5°	458.1	477.0	507.5	503.5	501.5
75°	367.9	382.9	406.6	409.3	402.5
77.5°	285.3	296.1	313.7	311.7	304.2
80°	200.6	209.4	222.3	219.6	211.4
82.5°	128.0	133.5	141.6	138.2	134.8
85°	69.8	70.4	71.1	70.4	68.4
87.5°	25.7	26.4	26.4	25.7	23.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)