

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: P489809

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-2LO-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: P489809
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-24-4-INS-P12125-LD4-2LO-35-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

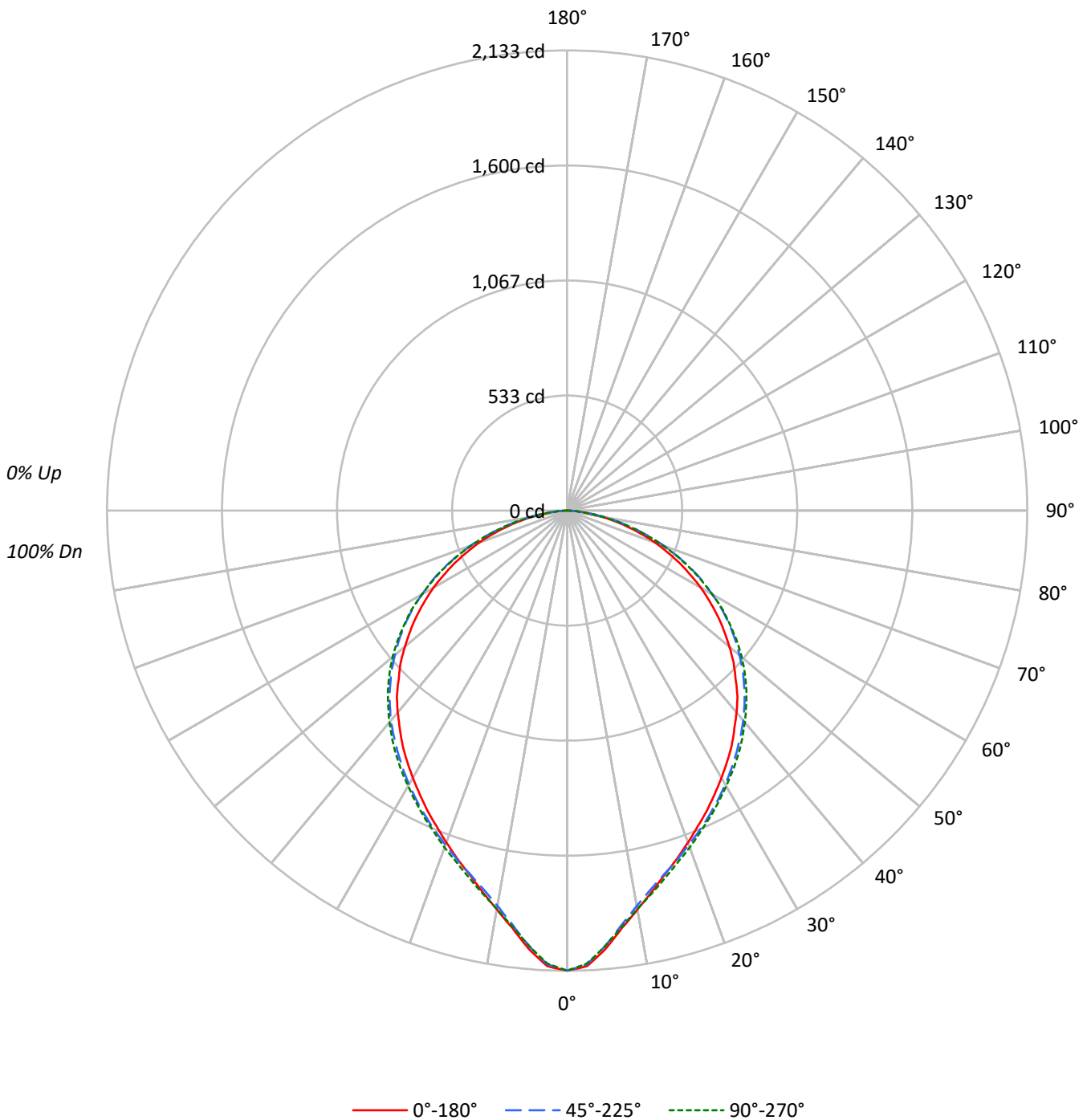
Lumens per Lamp: N/A
Luminaire Lumens: 4953.5 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 46.8
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	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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84					84			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70					70			
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59					59			
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51					51			
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44					44			
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38					38			
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34					34			
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30					30			
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27					27			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2869	2869	2869
5°	2755	2736	2736
10°	2564	2541	2560
15°	2433	2429	2452
20°	2344	2361	2379
25°	2277	2314	2327
30°	2222	2277	2291
35°	2184	2248	2270
40°	2145	2232	2251
45°	2101	2210	2237
50°	2055	2183	2212
55°	1997	2151	2160
60°	1926	2092	2088
65°	1826	2012	1998
70°	1704	1876	1853
75°	1504	1662	1645
80°	1222	1354	1288
85°	848	863	831



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.4	3.8
10°-20°	493.6	10.0
20°-30°	717.8	14.5
30°-40°	854.1	17.2
40°-50°	886.9	17.9
50°-60°	803.5	16.2
60°-70°	606.3	12.2
70°-80°	330.3	6.7
80°-90°	72.6	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°	1399.8	28.3
0°-40°	2253.9	45.5
0°-60°	3944.3	79.6
0°-90°	4953.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4953.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2133	2133	2133	2133	2133	
5°	2040	2035	2025	2024	2025	189
15°	1747	1742	1744	1755	1761	493
25°	1534	1546	1559	1571	1568	707
35°	1330	1346	1368	1389	1382	831
45°	1104	1124	1162	1174	1176	853
55°	852	872	917	924	921	760
65°	573	590	632	631	628	567
75°	289	301	320	322	316	308
85°	55	55	56	55	54	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2132.6	2132.6	2132.6	2132.6	2132.6
2.5°	2113.9	2111.8	2104.8	2102.2	2101.6
5°	2039.8	2035.0	2025.4	2024.4	2025.4
7.5°	1951.4	1946.0	1936.5	1940.2	1945.0
10°	1876.8	1863.5	1859.7	1865.0	1874.1
12.5°	1810.1	1799.5	1796.3	1810.1	1816.6
15°	1746.7	1742.5	1743.6	1755.3	1760.6
17.5°	1691.9	1689.2	1696.1	1705.2	1707.9
20°	1637.0	1642.3	1648.7	1658.3	1661.5
22.5°	1583.2	1593.3	1604.0	1616.7	1612.5
25°	1533.6	1546.4	1558.7	1571.4	1567.7
27.5°	1480.8	1495.8	1512.8	1526.7	1521.3
30°	1430.2	1448.9	1465.4	1482.4	1474.5
32.5°	1380.2	1397.7	1417.4	1438.2	1429.2
35°	1329.5	1345.5	1368.4	1389.2	1382.3
37.5°	1273.6	1293.3	1319.4	1337.5	1332.7
40°	1221.3	1239.5	1270.9	1282.6	1281.5
42.5°	1168.6	1183.5	1216.5	1229.9	1227.7
45°	1104.1	1123.8	1161.7	1174.5	1175.5
47.5°	1047.1	1063.6	1104.1	1114.2	1116.4
50°	981.6	1002.3	1042.8	1055.1	1056.7
52.5°	917.1	939.4	981.0	989.5	991.2
55°	851.5	871.8	917.1	923.5	920.8
57.5°	782.8	807.3	848.9	852.1	854.7
60°	715.6	737.0	777.5	781.7	775.9
62.5°	642.7	664.5	706.1	707.1	702.3
65°	573.4	589.9	632.0	630.9	627.7
67.5°	500.9	521.1	552.1	553.1	550.5
70°	433.2	447.1	476.9	477.5	471.1
72.5°	360.2	375.1	399.1	395.9	394.3
75°	289.3	301.1	319.7	321.9	316.5
77.5°	224.3	232.9	246.7	245.1	239.3
80°	157.7	164.6	174.8	172.7	166.2
82.5°	100.7	105.0	111.4	108.7	106.0
85°	54.9	55.4	55.9	55.4	53.8
87.5°	20.2	20.8	20.8	20.2	18.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)