

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: P489341

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-4LO-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: P489341
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-LD4-4LO-35-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

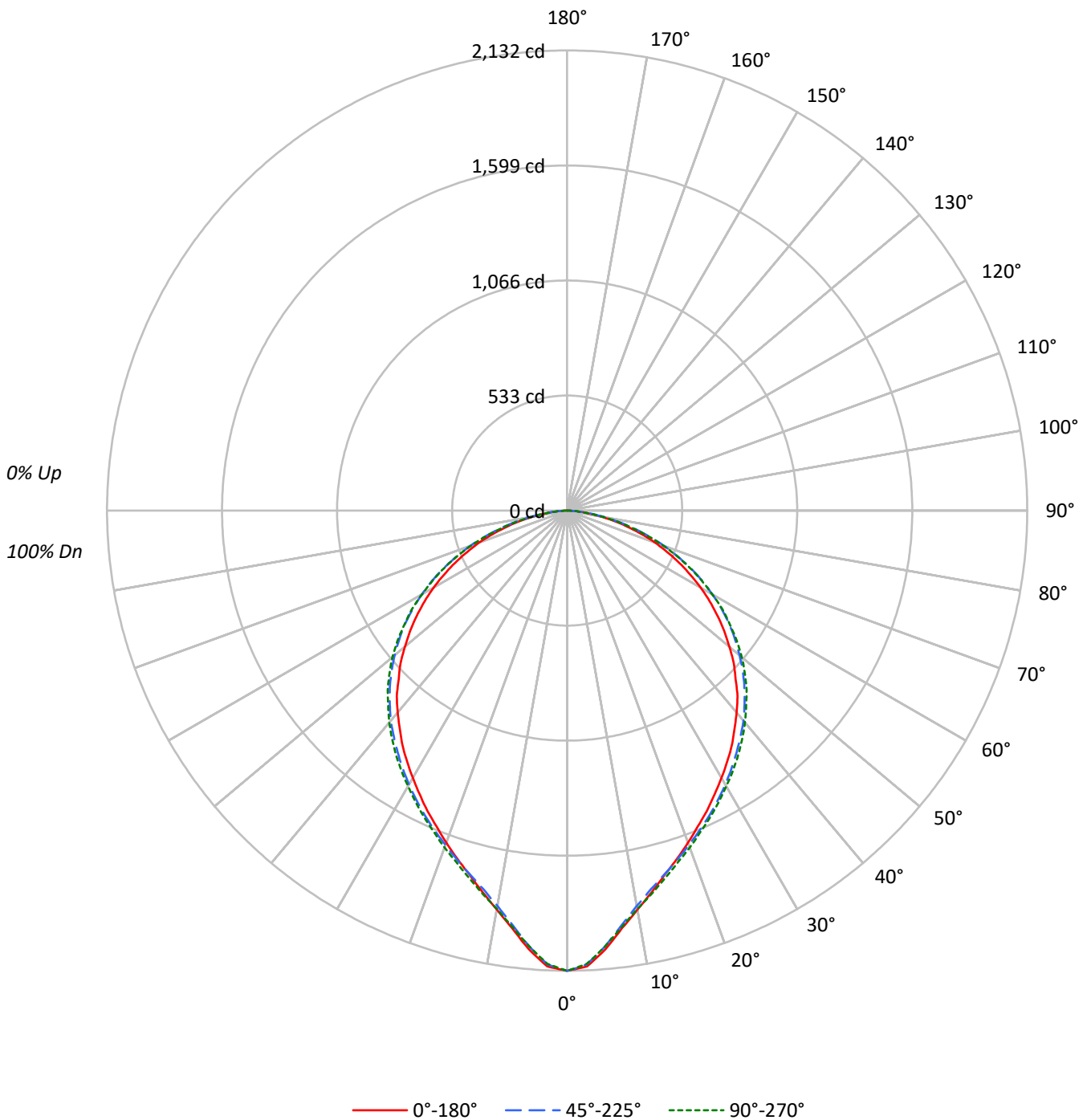
Lumens per Lamp: N/A
Luminaire Lumens: 4953.3 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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	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°	5739	5739	5739
5°	5510	5471	5471
10°	5128	5081	5121
15°	4866	4857	4905
20°	4688	4721	4758
25°	4554	4628	4655
30°	4444	4553	4581
35°	4368	4495	4541
40°	4290	4464	4502
45°	4202	4421	4474
50°	4109	4366	4424
55°	3995	4302	4320
60°	3851	4184	4175
65°	3650	4024	3997
70°	3408	3752	3707
75°	3008	3324	3291
80°	2444	2709	2576
85°	1695	1726	1661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.4	3.8
10°-20°	493.6	10.0
20°-30°	717.7	14.5
30°-40°	854.1	17.2
40°-50°	886.9	17.9
50°-60°	803.4	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°	1399.7	28.3
0°-40°	2253.8	45.5
0°-60°	3944.1	79.6
0°-90°	4953.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4953.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2132	2132	2132	2132	2132	
5°	2040	2035	2025	2024	2025	189
15°	1747	1742	1744	1755	1760	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	923	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°	2132.5	2132.5	2132.5	2132.5	2132.5
2.5°	2113.8	2111.7	2104.8	2102.1	2101.5
5°	2039.8	2035.0	2025.4	2024.3	2025.4
7.5°	1951.3	1946.0	1936.4	1940.1	1944.9
10°	1876.7	1863.4	1859.6	1865.0	1874.0
12.5°	1810.1	1799.4	1796.2	1810.1	1816.5
15°	1746.7	1742.4	1743.5	1755.2	1760.5
17.5°	1691.8	1689.1	1696.1	1705.1	1707.8
20°	1636.9	1642.3	1648.6	1658.2	1661.4
22.5°	1583.1	1593.2	1603.9	1616.7	1612.4
25°	1533.6	1546.3	1558.6	1571.4	1567.7
27.5°	1480.8	1495.7	1512.8	1526.6	1521.3
30°	1430.1	1448.8	1465.3	1482.4	1474.4
32.5°	1380.1	1397.7	1417.4	1438.2	1429.1
35°	1329.5	1345.5	1368.4	1389.2	1382.2
37.5°	1273.5	1293.2	1319.3	1337.4	1332.7
40°	1221.3	1239.4	1270.9	1282.6	1281.5
42.5°	1168.5	1183.5	1216.5	1229.8	1227.7
45°	1104.1	1123.8	1161.6	1174.4	1175.5
47.5°	1047.1	1063.6	1104.1	1114.2	1116.3
50°	981.5	1002.3	1042.8	1055.0	1056.7
52.5°	917.0	939.4	981.0	989.5	991.1
55°	851.5	871.7	917.0	923.4	920.8
57.5°	782.8	807.3	848.8	852.0	854.7
60°	715.6	736.9	777.4	781.7	775.8
62.5°	642.6	664.5	706.0	707.1	702.3
65°	573.3	589.9	631.9	630.9	627.7
67.5°	500.9	521.1	552.0	553.1	550.5
70°	433.2	447.0	476.9	477.4	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	239.2
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)