

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: P489382

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-5STD-20-120-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: P489382
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-LD4-5STD-20-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

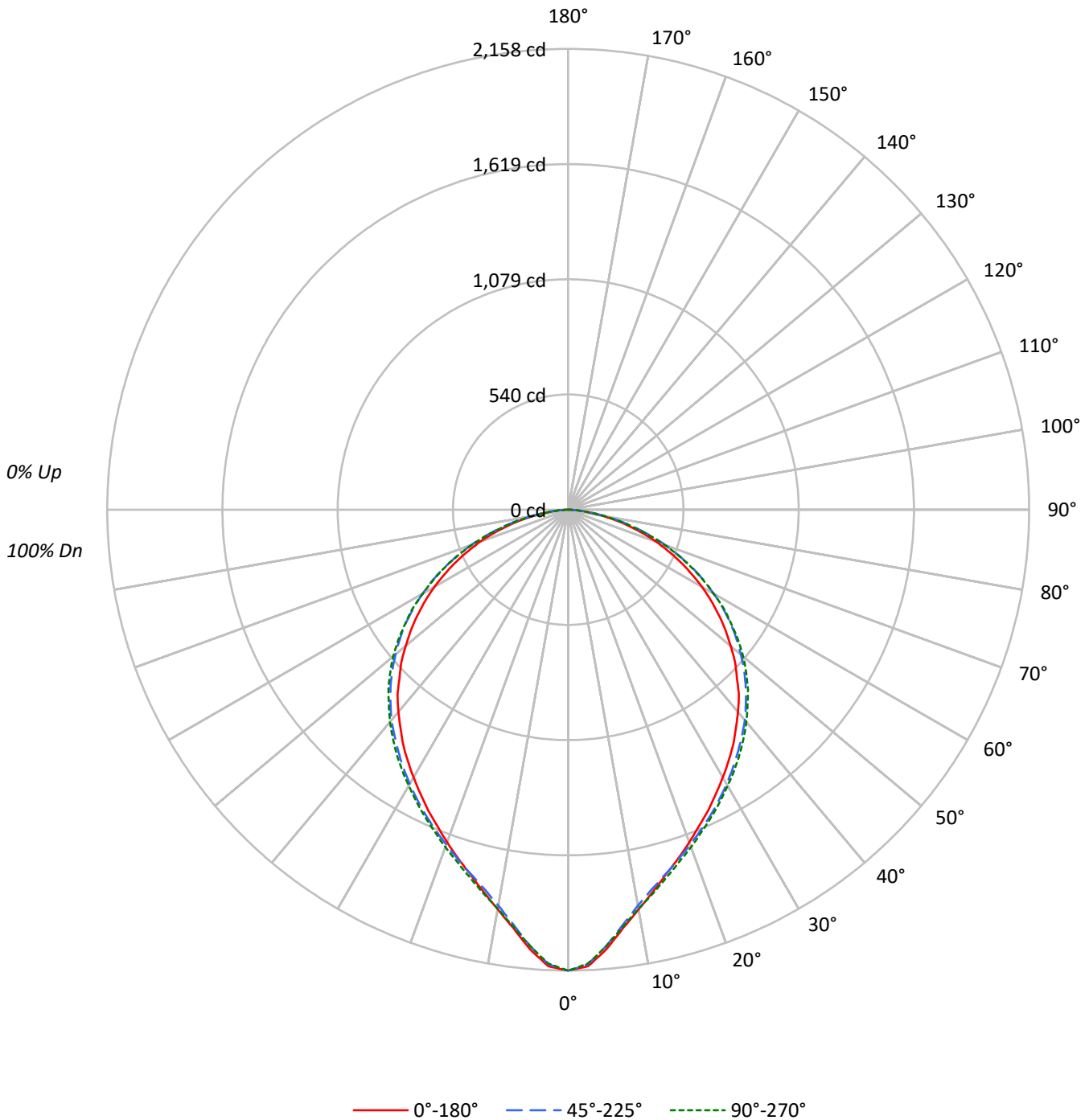
Lumens per Lamp: N/A
Luminaire Lumens: 5013.5 lumens
Efficiency: N/A
Efficacy: 60.3 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 83.2
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	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°	5808	5808	5808
5°	5577	5538	5538
10°	5190	5143	5183
15°	4925	4916	4964
20°	4745	4779	4816
25°	4609	4684	4711
30°	4498	4609	4637
35°	4420	4550	4596
40°	4342	4519	4556
45°	4253	4474	4528
50°	4159	4419	4477
55°	4043	4355	4373
60°	3898	4235	4226
65°	3695	4073	4045
70°	3450	3798	3751
75°	3045	3365	3331
80°	2473	2741	2607
85°	1717	1748	1683



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.7	3.8
10°-20°	499.6	10.0
20°-30°	726.5	14.5
30°-40°	864.5	17.2
40°-50°	897.6	17.9
50°-60°	813.2	16.2
60°-70°	613.6	12.2
70°-80°	334.3	6.7
80°-90°	73.5	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°	1416.8	28.3
0°-40°	2281.2	45.5
0°-60°	3992.1	79.6
0°-90°	5013.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5013.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2158	2158	2158	2158	2158	
5°	2064	2060	2050	2049	2050	192
15°	1768	1764	1765	1777	1782	499
25°	1552	1565	1578	1590	1587	715
35°	1346	1362	1385	1406	1399	841
45°	1118	1137	1176	1189	1190	864
55°	862	882	928	935	932	770
65°	580	597	640	639	635	574
75°	293	305	324	326	320	312
85°	56	56	57	56	54	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2158.4	2158.4	2158.4	2158.4	2158.4
2.5°	2139.5	2137.3	2130.3	2127.6	2127.1
5°	2064.5	2059.7	2050.0	2048.9	2050.0
7.5°	1975.0	1969.6	1959.9	1963.7	1968.6
10°	1899.5	1886.0	1882.2	1887.6	1896.8
12.5°	1832.1	1821.3	1818.0	1832.1	1838.6
15°	1767.9	1763.6	1764.7	1776.6	1781.9
17.5°	1712.4	1709.7	1716.7	1725.9	1728.6
20°	1656.8	1662.2	1668.7	1678.4	1681.6
22.5°	1602.3	1612.6	1623.4	1636.3	1632.0
25°	1552.2	1565.1	1577.5	1590.5	1586.7
27.5°	1498.8	1513.9	1531.2	1545.2	1539.8
30°	1447.5	1466.4	1483.2	1500.4	1492.3
32.5°	1396.9	1414.7	1434.6	1455.6	1446.5
35°	1345.6	1361.8	1385.0	1406.0	1399.0
37.5°	1289.0	1308.9	1335.4	1353.7	1348.9
40°	1236.1	1254.5	1286.3	1298.2	1297.1
42.5°	1182.7	1197.9	1231.3	1244.8	1242.6
45°	1117.5	1137.4	1175.7	1188.7	1189.7
47.5°	1059.8	1076.5	1117.5	1127.7	1129.9
50°	993.4	1014.5	1055.5	1067.8	1069.5
52.5°	928.2	950.8	992.9	1001.5	1003.2
55°	861.8	882.3	928.2	934.7	932.0
57.5°	792.3	817.1	859.2	862.4	865.1
60°	724.3	745.9	786.9	791.2	785.3
62.5°	650.4	672.5	714.6	715.7	710.8
65°	580.3	597.0	639.6	638.6	635.3
67.5°	506.9	527.4	558.7	559.8	557.1
70°	438.5	452.5	482.7	483.2	476.8
72.5°	364.6	379.7	403.9	400.7	399.1
75°	292.9	304.7	323.6	325.8	320.4
77.5°	227.1	235.7	249.7	248.1	242.1
80°	159.6	166.6	176.9	174.8	168.2
82.5°	101.9	106.3	112.7	110.0	107.3
85°	55.6	56.1	56.6	56.1	54.5
87.5°	20.5	21.0	21.0	20.5	18.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)