

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: P489287

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-3HI-20-120-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: P489287
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-LD4-3HI-20-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

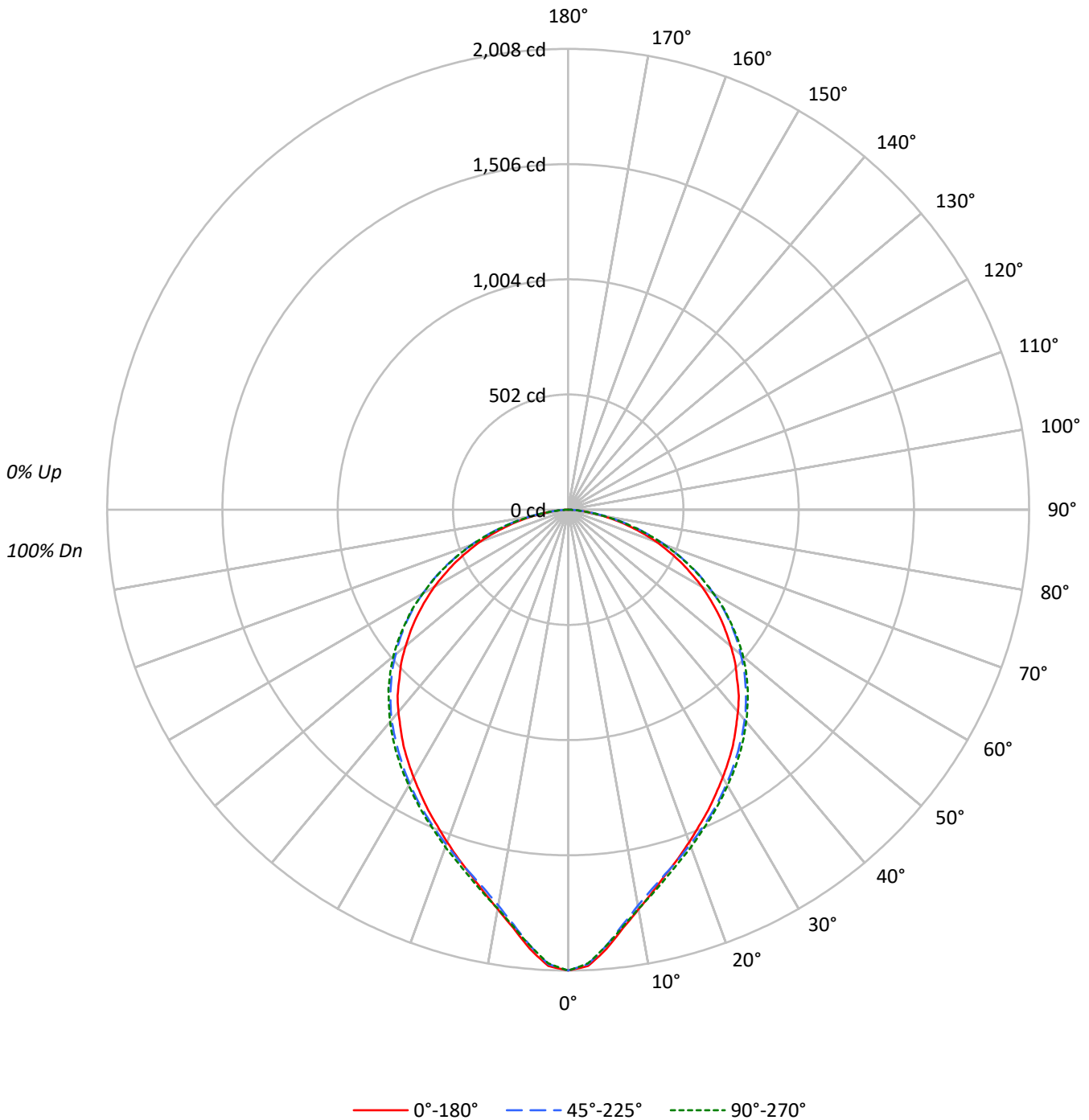
Lumens per Lamp: N/A
Luminaire Lumens: 4663.7 lumens
Efficiency: N/A
Efficacy: 72.0 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	5403	5403	5403
5°	5188	5151	5151
10°	4828	4784	4821
15°	4581	4573	4618
20°	4414	4445	4480
25°	4287	4357	4382
30°	4184	4287	4314
35°	4112	4232	4275
40°	4039	4203	4239
45°	3956	4162	4212
50°	3869	4110	4165
55°	3761	4051	4067
60°	3626	3940	3932
65°	3437	3789	3763
70°	3209	3533	3489
75°	2832	3130	3098
80°	2301	2551	2425
85°	1596	1627	1565



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.4	3.8
10°-20°	464.7	10.0
20°-30°	675.8	14.5
30°-40°	804.2	17.2
40°-50°	835.0	17.9
50°-60°	756.5	16.2
60°-70°	570.8	12.2
70°-80°	311.0	6.7
80°-90°	68.4	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°	1317.9	28.3
0°-40°	2122.1	45.5
0°-60°	3713.5	79.6
0°-90°	4663.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4663.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2008	2008	2008	2008	2008	
5°	1920	1916	1907	1906	1907	178
15°	1644	1640	1642	1653	1658	464
25°	1444	1456	1468	1480	1476	665
35°	1252	1267	1288	1308	1301	783
45°	1040	1058	1094	1106	1107	804
55°	802	821	863	870	867	716
65°	540	555	595	594	591	534
75°	272	284	301	303	298	290
85°	52	52	53	52	51	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2007.8	2007.8	2007.8	2007.8	2007.8
2.5°	1990.2	1988.2	1981.7	1979.2	1978.7
5°	1920.5	1916.0	1906.9	1906.0	1906.9
7.5°	1837.2	1832.2	1823.2	1826.7	1831.2
10°	1767.0	1754.4	1750.9	1755.9	1764.5
12.5°	1704.2	1694.2	1691.2	1704.2	1710.3
15°	1644.5	1640.5	1641.6	1652.6	1657.6
17.5°	1592.9	1590.4	1596.9	1605.4	1608.0
20°	1541.2	1546.2	1552.3	1561.3	1564.3
22.5°	1490.5	1500.1	1510.1	1522.1	1518.1
25°	1443.9	1455.9	1467.5	1479.5	1476.0
27.5°	1394.2	1408.2	1424.3	1437.4	1432.3
30°	1346.5	1364.1	1379.7	1395.7	1388.2
32.5°	1299.4	1316.0	1334.5	1354.1	1345.6
35°	1251.7	1266.8	1288.4	1307.9	1301.4
37.5°	1199.1	1217.6	1242.2	1259.2	1254.8
40°	1149.9	1167.0	1196.5	1207.6	1206.6
42.5°	1100.2	1114.3	1145.4	1157.9	1155.9
45°	1039.5	1058.1	1093.7	1105.8	1106.7
47.5°	985.8	1001.4	1039.5	1049.0	1051.0
50°	924.1	943.7	981.8	993.3	994.9
52.5°	863.4	884.5	923.6	931.6	933.2
55°	801.7	820.8	863.4	869.5	866.9
57.5°	737.0	760.1	799.2	802.2	804.7
60°	673.8	693.8	732.0	736.0	730.5
62.5°	605.1	625.6	664.8	665.7	661.2
65°	539.8	555.4	595.0	594.0	591.0
67.5°	471.6	490.6	519.8	520.7	518.3
70°	407.9	420.9	449.0	449.5	443.5
72.5°	339.2	353.2	375.8	372.8	371.3
75°	272.4	283.5	301.0	303.0	298.0
77.5°	211.2	219.2	232.3	230.8	225.3
80°	148.5	155.0	164.6	162.6	156.5
82.5°	94.8	98.9	104.9	102.3	99.8
85°	51.7	52.2	52.7	52.2	50.7
87.5°	19.1	19.6	19.6	19.1	17.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)