

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: P489372

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-5LO-27-120-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: P489372
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-LD4-5LO-27-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

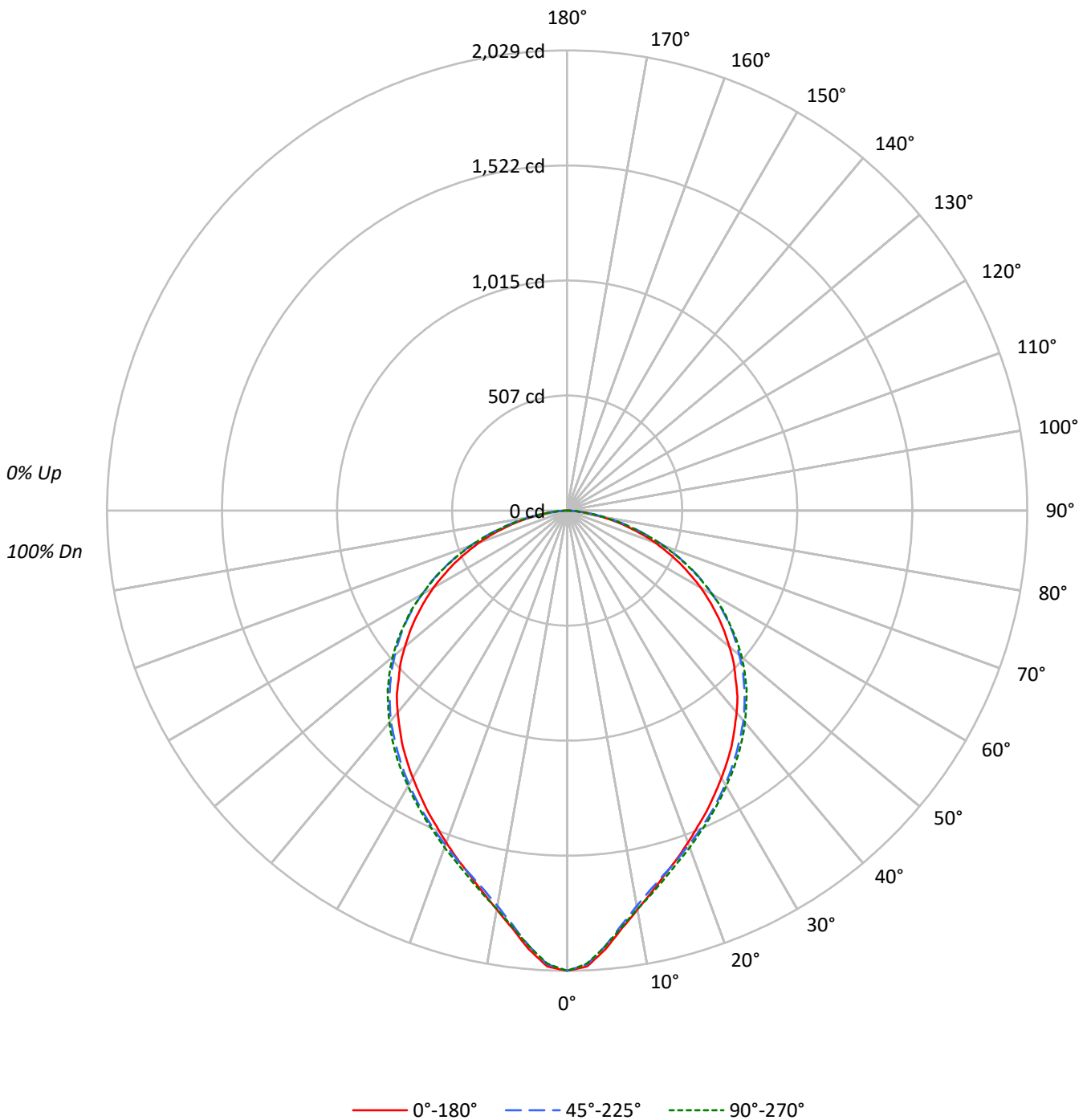
Lumens per Lamp: N/A
Luminaire Lumens: 4713.2 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 58.5
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°	5460	5460	5460
5°	5243	5206	5206
10°	4879	4835	4873
15°	4630	4622	4667
20°	4460	4492	4527
25°	4333	4404	4429
30°	4228	4332	4359
35°	4156	4277	4321
40°	4082	4248	4284
45°	3998	4206	4257
50°	3910	4154	4209
55°	3801	4094	4110
60°	3665	3981	3973
65°	3473	3829	3803
70°	3243	3570	3526
75°	2862	3163	3132
80°	2326	2577	2452
85°	1612	1643	1581



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.3	3.8
10°-20°	469.6	10.0
20°-30°	683.0	14.5
30°-40°	812.7	17.2
40°-50°	843.9	17.9
50°-60°	764.5	16.2
60°-70°	576.9	12.2
70°-80°	314.3	6.7
80°-90°	69.1	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°	1331.9	28.3
0°-40°	2144.6	45.5
0°-60°	3752.9	79.6
0°-90°	4713.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4713.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2029	2029	2029	2029	2029	
5°	1941	1936	1927	1926	1927	180
15°	1662	1658	1659	1670	1675	469
25°	1459	1471	1483	1495	1492	672
35°	1265	1280	1302	1322	1315	791
45°	1051	1069	1105	1118	1118	812
55°	810	830	873	879	876	723
65°	546	561	601	600	597	539
75°	275	286	304	306	301	293
85°	52	53	53	53	51	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2029.1	2029.1	2029.1	2029.1	2029.1
2.5°	2011.4	2009.3	2002.7	2000.2	1999.7
5°	1940.9	1936.3	1927.2	1926.2	1927.2
7.5°	1856.7	1851.6	1842.5	1846.1	1850.6
10°	1785.7	1773.1	1769.5	1774.6	1783.2
12.5°	1722.3	1712.2	1709.1	1722.3	1728.5
15°	1662.0	1657.9	1659.0	1670.1	1675.2
17.5°	1609.8	1607.3	1613.9	1622.5	1625.0
20°	1557.6	1562.7	1568.7	1577.9	1580.9
22.5°	1506.4	1516.0	1526.2	1538.3	1534.3
25°	1459.2	1471.4	1483.1	1495.2	1491.7
27.5°	1409.0	1423.2	1439.4	1452.6	1447.5
30°	1360.8	1378.6	1394.3	1410.5	1402.9
32.5°	1313.2	1329.9	1348.7	1368.5	1359.8
35°	1265.0	1280.2	1302.0	1321.8	1315.2
37.5°	1211.8	1230.5	1255.4	1272.6	1268.1
40°	1162.1	1179.3	1209.3	1220.4	1219.4
42.5°	1111.9	1126.1	1157.5	1170.2	1168.2
45°	1050.6	1069.3	1105.3	1117.5	1118.5
47.5°	996.3	1012.0	1050.6	1060.2	1062.2
50°	933.9	953.7	992.3	1003.9	1005.4
52.5°	872.6	893.9	933.4	941.5	943.1
55°	810.2	829.5	872.6	878.7	876.1
57.5°	744.8	768.1	807.7	810.7	813.3
60°	680.9	701.2	739.7	743.8	738.2
62.5°	611.5	632.3	671.8	672.8	668.2
65°	545.5	561.3	601.3	600.3	597.3
67.5°	476.6	495.8	525.3	526.3	523.8
70°	412.2	425.4	453.8	454.3	448.2
72.5°	342.8	356.9	379.7	376.7	375.2
75°	275.3	286.5	304.2	306.3	301.2
77.5°	213.5	221.6	234.8	233.2	227.6
80°	150.1	156.7	166.3	164.3	158.2
82.5°	95.8	99.9	106.0	103.4	100.9
85°	52.2	52.7	53.2	52.7	51.2
87.5°	19.3	19.8	19.8	19.3	17.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)