

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: P489383

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-5STD-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: P489383
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
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

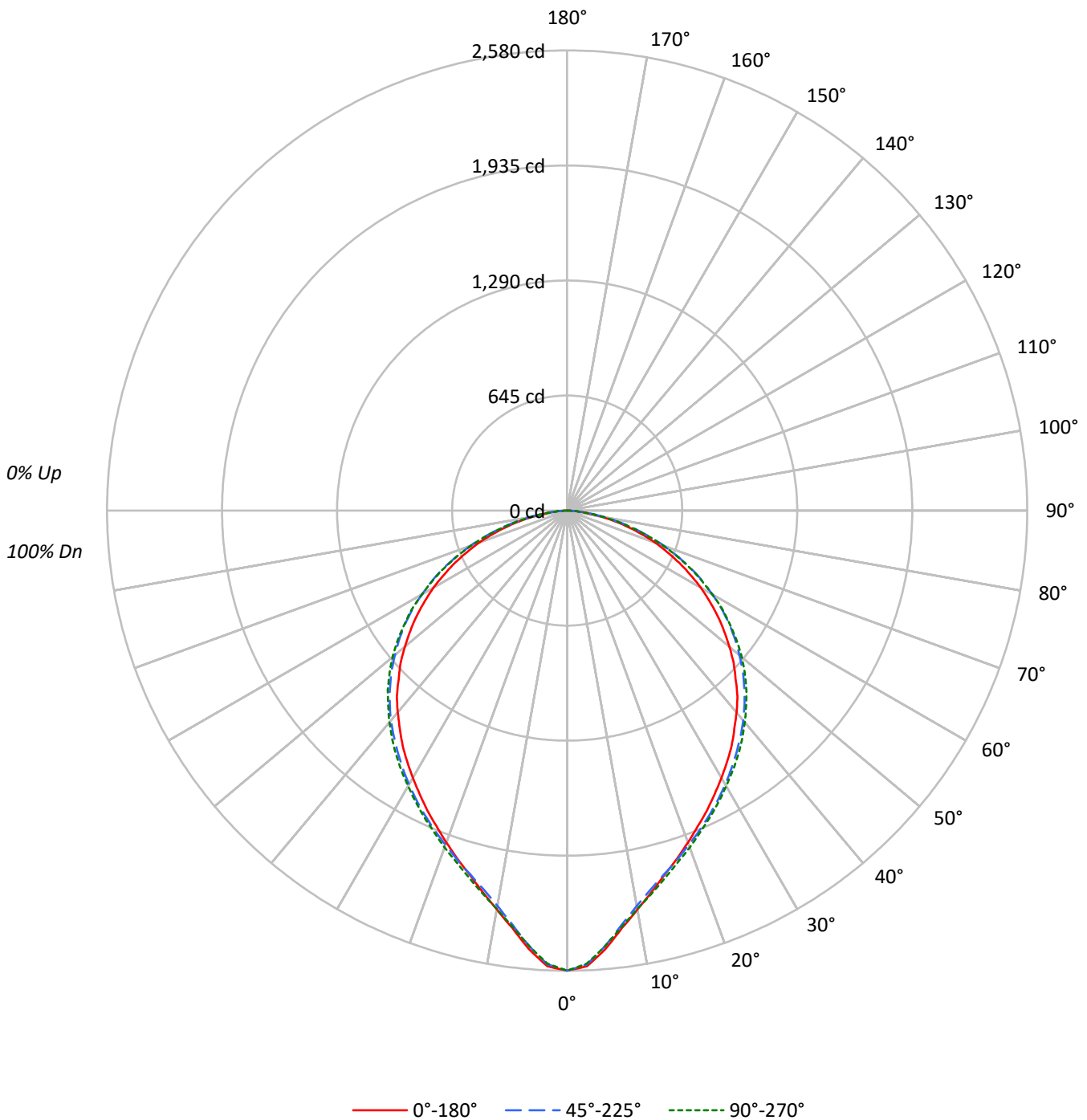
Lumens per Lamp: N/A
Luminaire Lumens: 5991.6 lumens
Efficiency: N/A
Efficacy: 72.0 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	6941	6941	6941
5°	6665	6618	6618
10°	6203	6146	6194
15°	5886	5875	5933
20°	5670	5711	5755
25°	5508	5598	5630
30°	5375	5508	5542
35°	5283	5437	5493
40°	5189	5400	5445
45°	5082	5347	5411
50°	4971	5281	5351
55°	4832	5204	5225
60°	4659	5061	5051
65°	4416	4867	4835
70°	4123	4539	4483
75°	3639	4021	3981
80°	2957	3276	3116
85°	2050	2090	2010



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.9	3.8
10°-20°	597.0	10.0
20°-30°	868.2	14.5
30°-40°	1033.1	17.2
40°-50°	1072.7	17.9
50°-60°	971.9	16.2
60°-70°	733.3	12.2
70°-80°	399.6	6.7
80°-90°	87.8	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°	1693.2	28.3
0°-40°	2726.3	45.5
0°-60°	4770.9	79.6
0°-90°	5991.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5991.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2580	2580	2580	2580	2580	
5°	2467	2462	2450	2449	2450	229
15°	2113	2108	2109	2123	2130	596
25°	1855	1870	1885	1901	1896	855
35°	1608	1628	1655	1680	1672	1005
45°	1336	1359	1405	1421	1422	1032
55°	1030	1054	1109	1117	1114	920
65°	694	714	764	763	759	686
75°	350	364	387	389	383	373
85°	66	67	68	67	65	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2579.5	2579.5	2579.5	2579.5	2579.5
2.5°	2556.9	2554.3	2545.9	2542.7	2542.1
5°	2467.3	2461.5	2449.9	2448.6	2449.9
7.5°	2360.3	2353.9	2342.3	2346.8	2352.6
10°	2270.1	2254.0	2249.4	2255.9	2266.9
12.5°	2189.5	2176.6	2172.7	2189.5	2197.3
15°	2112.8	2107.6	2109.0	2123.1	2129.6
17.5°	2046.4	2043.2	2051.6	2062.6	2065.8
20°	1980.0	1986.5	1994.2	2005.8	2009.7
22.5°	1915.0	1927.2	1940.1	1955.6	1950.4
25°	1855.0	1870.5	1885.3	1900.8	1896.3
27.5°	1791.2	1809.2	1829.9	1846.6	1840.2
30°	1729.9	1752.5	1772.5	1793.1	1783.5
32.5°	1669.4	1690.7	1714.5	1739.6	1728.7
35°	1608.1	1627.5	1655.2	1680.4	1672.0
37.5°	1540.5	1564.3	1595.9	1617.8	1612.0
40°	1477.3	1499.2	1537.2	1551.4	1550.1
42.5°	1413.5	1431.6	1471.5	1487.6	1485.0
45°	1335.5	1359.3	1405.1	1420.6	1421.9
47.5°	1266.5	1286.5	1335.5	1347.7	1350.3
50°	1187.3	1212.4	1261.4	1276.2	1278.2
52.5°	1109.2	1136.3	1186.6	1196.9	1198.9
55°	1030.0	1054.5	1109.2	1117.0	1113.8
57.5°	946.8	976.5	1026.8	1030.6	1033.9
60°	865.6	891.4	940.4	945.5	938.5
62.5°	777.3	803.7	854.0	855.3	849.5
65°	693.5	713.5	764.4	763.1	759.3
67.5°	605.8	630.3	667.8	669.0	665.8
70°	524.0	540.8	576.9	577.5	569.8
72.5°	435.7	453.8	482.7	478.9	477.0
75°	350.0	364.2	386.7	389.3	382.9
77.5°	271.4	281.7	298.4	296.5	289.4
80°	190.8	199.2	211.4	208.9	201.1
82.5°	121.8	127.0	134.7	131.5	128.3
85°	66.4	67.0	67.7	67.0	65.1
87.5°	24.5	25.1	25.1	24.5	22.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)