

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: P489358

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-5HI-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: P489358
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-LD4-5HI-20-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

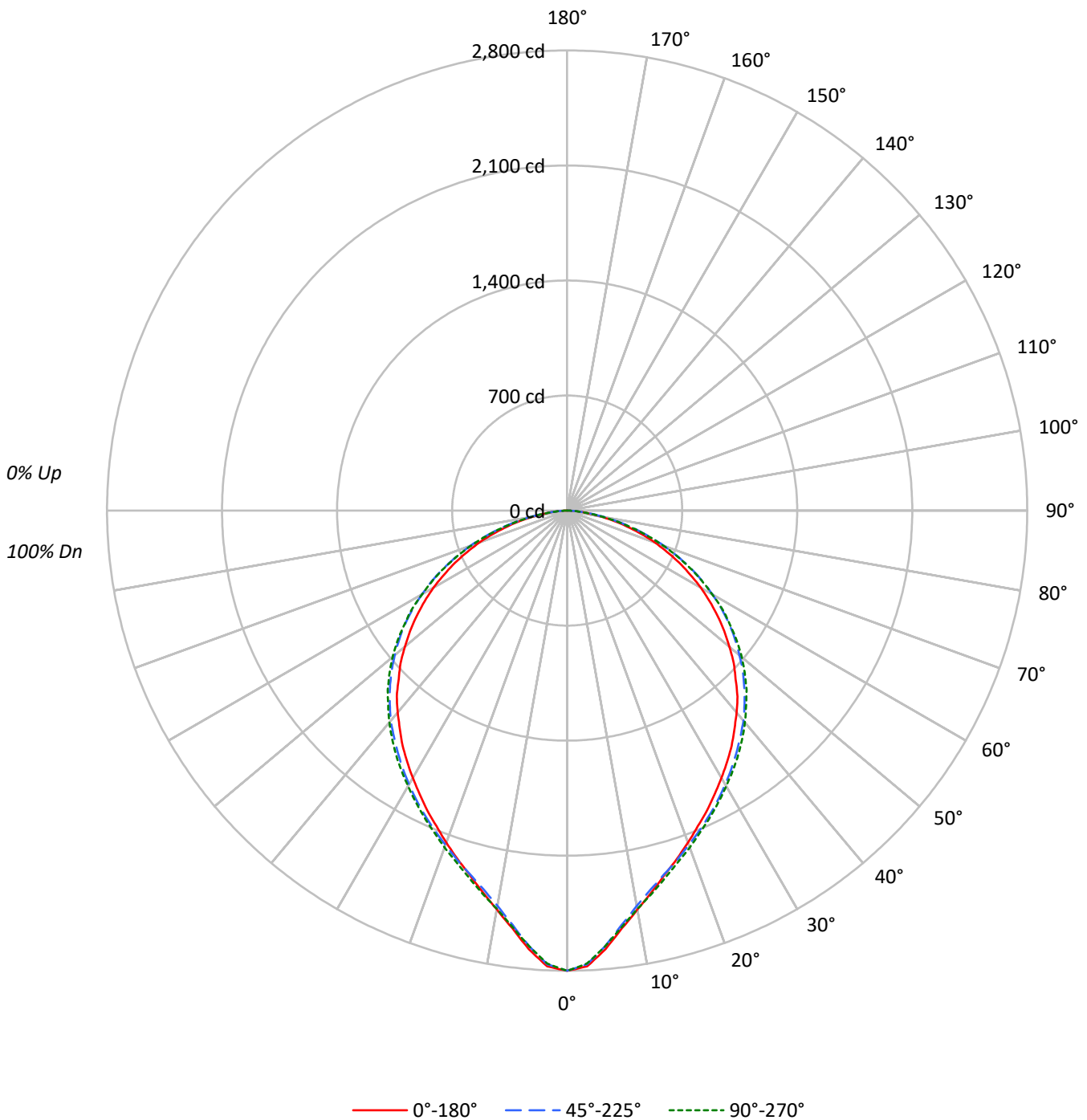
Lumens per Lamp: N/A
Luminaire Lumens: 6504.0 lumens
Efficiency: N/A
Efficacy: 60.2 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 108
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°	7535	7535	7535
5°	7235	7184	7184
10°	6733	6672	6724
15°	6389	6378	6440
20°	6155	6199	6247
25°	5979	6076	6112
30°	5835	5979	6016
35°	5735	5903	5962
40°	5633	5862	5911
45°	5517	5805	5874
50°	5395	5732	5809
55°	5245	5649	5672
60°	5057	5494	5483
65°	4793	5284	5248
70°	4475	4927	4866
75°	3950	4365	4321
80°	3209	3556	3383
85°	2226	2266	2183



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.4	3.8
10°-20°	648.1	10.0
20°-30°	942.4	14.5
30°-40°	1121.5	17.2
40°-50°	1164.5	17.9
50°-60°	1055.0	16.2
60°-70°	796.1	12.2
70°-80°	433.8	6.7
80°-90°	95.3	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°	1837.9	28.3
0°-40°	2959.4	45.5
0°-60°	5178.9	79.6
0°-90°	6504.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6504.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2800	2800	2800	2800	2800	
5°	2678	2672	2659	2658	2659	249
15°	2294	2288	2289	2305	2312	647
25°	2014	2030	2046	2063	2058	928
35°	1746	1767	1797	1824	1815	1091
45°	1450	1476	1525	1542	1544	1121
55°	1118	1145	1204	1212	1209	998
65°	753	774	830	828	824	744
75°	380	395	420	423	416	405
85°	72	73	73	73	71	91
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2800.1	2800.1	2800.1	2800.1	2800.1
2.5°	2775.6	2772.8	2763.7	2760.2	2759.5
5°	2678.3	2672.0	2659.4	2658.1	2659.4
7.5°	2562.2	2555.2	2542.6	2547.5	2553.8
10°	2464.2	2446.7	2441.8	2448.8	2460.7
12.5°	2376.7	2362.8	2358.5	2376.7	2385.2
15°	2293.5	2287.9	2289.3	2304.7	2311.7
17.5°	2221.5	2217.9	2227.0	2238.9	2242.5
20°	2149.4	2156.4	2164.8	2177.4	2181.6
22.5°	2078.7	2092.0	2106.0	2122.8	2117.2
25°	2013.7	2030.4	2046.5	2063.3	2058.4
27.5°	1944.4	1963.9	1986.4	2004.6	1997.5
30°	1877.9	1902.4	1924.1	1946.5	1936.0
32.5°	1812.2	1835.2	1861.1	1888.4	1876.5
35°	1745.7	1766.7	1796.8	1824.1	1815.0
37.5°	1672.2	1698.1	1732.3	1756.1	1749.9
40°	1603.6	1627.4	1668.7	1684.1	1682.7
42.5°	1534.4	1554.0	1597.3	1614.8	1612.0
45°	1449.7	1475.6	1525.3	1542.1	1543.5
47.5°	1374.9	1396.6	1449.7	1463.0	1465.8
50°	1288.8	1316.1	1369.3	1385.3	1387.5
52.5°	1204.1	1233.5	1288.1	1299.3	1301.4
55°	1118.0	1144.6	1204.1	1212.5	1209.0
57.5°	1027.8	1060.0	1114.6	1118.8	1122.3
60°	939.6	967.6	1020.8	1026.4	1018.7
62.5°	843.8	872.5	927.1	928.4	922.1
65°	752.8	774.5	829.8	828.4	824.2
67.5°	657.7	684.2	724.9	726.2	722.8
70°	568.8	587.0	626.2	626.9	618.5
72.5°	473.0	492.6	524.0	519.9	517.8
75°	379.9	395.3	419.8	422.6	415.6
77.5°	294.6	305.8	324.0	321.9	314.1
80°	207.1	216.2	229.5	226.7	218.3
82.5°	132.2	137.9	146.2	142.7	139.2
85°	72.1	72.7	73.4	72.7	70.7
87.5°	26.6	27.3	27.3	26.6	24.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)