

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: P489384

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-5STD-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: P489384
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-27-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

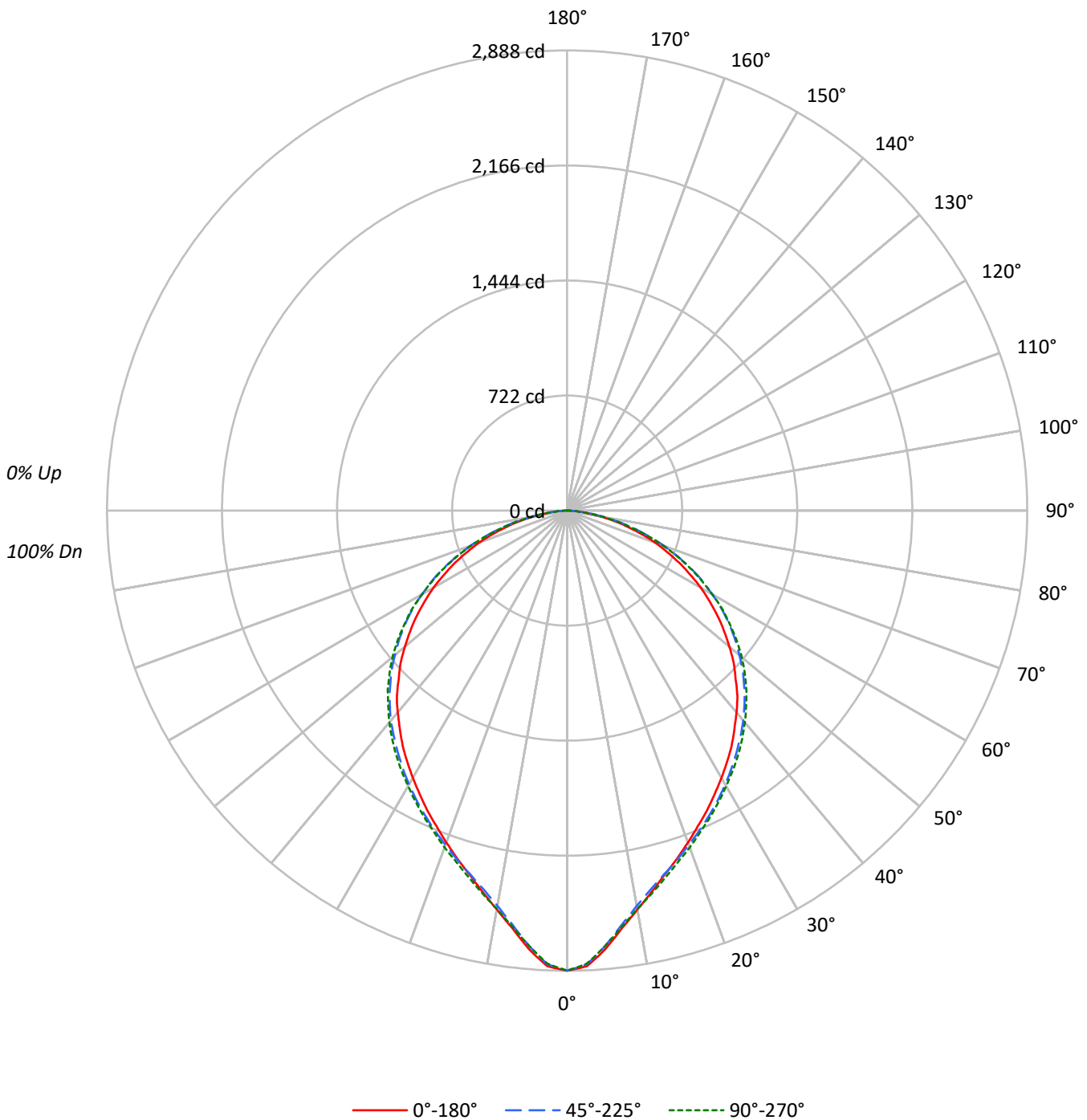
Lumens per Lamp: N/A
Luminaire Lumens: 6707.3 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	7770	7770	7770
5°	7461	7408	7408
10°	6944	6881	6934
15°	6589	6577	6641
20°	6348	6393	6442
25°	6166	6266	6303
30°	6018	6165	6204
35°	5914	6087	6149
40°	5810	6045	6096
45°	5689	5986	6057
50°	5564	5912	5990
55°	5409	5826	5849
60°	5215	5666	5654
65°	4943	5449	5412
70°	4615	5081	5019
75°	4074	4501	4456
80°	3310	3668	3488
85°	2294	2337	2251



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.2	3.8
10°-20°	668.3	10.0
20°-30°	971.9	14.5
30°-40°	1156.5	17.2
40°-50°	1200.9	17.9
50°-60°	1087.9	16.2
60°-70°	820.9	12.2
70°-80°	447.3	6.7
80°-90°	98.3	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°	1895.4	28.3
0°-40°	3051.9	45.5
0°-60°	5340.7	79.6
0°-90°	6707.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6707.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2888	2888	2888	2888	2888	
5°	2762	2756	2742	2741	2742	256
15°	2365	2359	2361	2377	2384	668
25°	2077	2094	2110	2128	2123	957
35°	1800	1822	1853	1881	1872	1125
45°	1495	1522	1573	1590	1592	1156
55°	1153	1180	1242	1250	1247	1029
65°	776	799	856	854	850	767
75°	392	408	433	436	429	417
85°	74	75	76	75	73	94
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2887.6	2887.6	2887.6	2887.6	2887.6
2.5°	2862.3	2859.4	2850.1	2846.4	2845.7
5°	2762.1	2755.6	2742.5	2741.1	2742.5
7.5°	2642.3	2635.0	2622.1	2627.1	2633.6
10°	2541.3	2523.2	2518.1	2525.4	2537.6
12.5°	2451.0	2436.6	2432.3	2451.0	2459.7
15°	2365.2	2359.4	2360.9	2376.8	2383.9
17.5°	2290.9	2287.3	2296.7	2308.9	2312.5
20°	2216.6	2223.8	2232.4	2245.4	2249.7
22.5°	2143.7	2157.4	2171.8	2189.1	2183.4
25°	2076.6	2093.9	2110.5	2127.8	2122.8
27.5°	2005.1	2025.3	2048.4	2067.2	2060.0
30°	1936.6	1961.8	1984.2	2007.3	1996.5
32.5°	1868.8	1892.6	1919.3	1947.4	1935.2
35°	1800.2	1821.9	1852.9	1881.1	1871.7
37.5°	1724.5	1751.2	1786.5	1811.0	1804.6
40°	1653.8	1678.3	1720.9	1736.8	1735.3
42.5°	1582.3	1602.6	1647.3	1665.3	1662.4
45°	1495.0	1521.7	1572.9	1590.3	1591.7
47.5°	1417.8	1440.2	1495.0	1508.7	1511.6
50°	1329.1	1357.2	1412.1	1428.6	1430.8
52.5°	1241.7	1272.0	1328.3	1339.9	1342.1
55°	1153.0	1180.4	1241.7	1250.4	1246.8
57.5°	1059.9	1093.1	1149.4	1153.7	1157.3
60°	969.0	997.9	1052.7	1058.5	1050.6
62.5°	870.2	899.7	956.1	957.5	951.0
65°	776.3	798.7	855.7	854.3	849.9
67.5°	678.2	705.6	747.5	748.9	745.4
70°	586.6	605.4	645.8	646.5	637.9
72.5°	487.8	508.0	540.4	536.1	534.0
75°	391.8	407.7	432.9	435.8	428.6
77.5°	303.8	315.3	334.1	331.9	324.0
80°	213.6	222.9	236.7	233.8	225.1
82.5°	136.3	142.2	150.8	147.2	143.6
85°	74.3	75.0	75.7	75.0	72.9
87.5°	27.4	28.2	28.2	27.4	25.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)