

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: P489851

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-3STD-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: P489851
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-24-4-INS-P12125-LD4-3STD-20-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

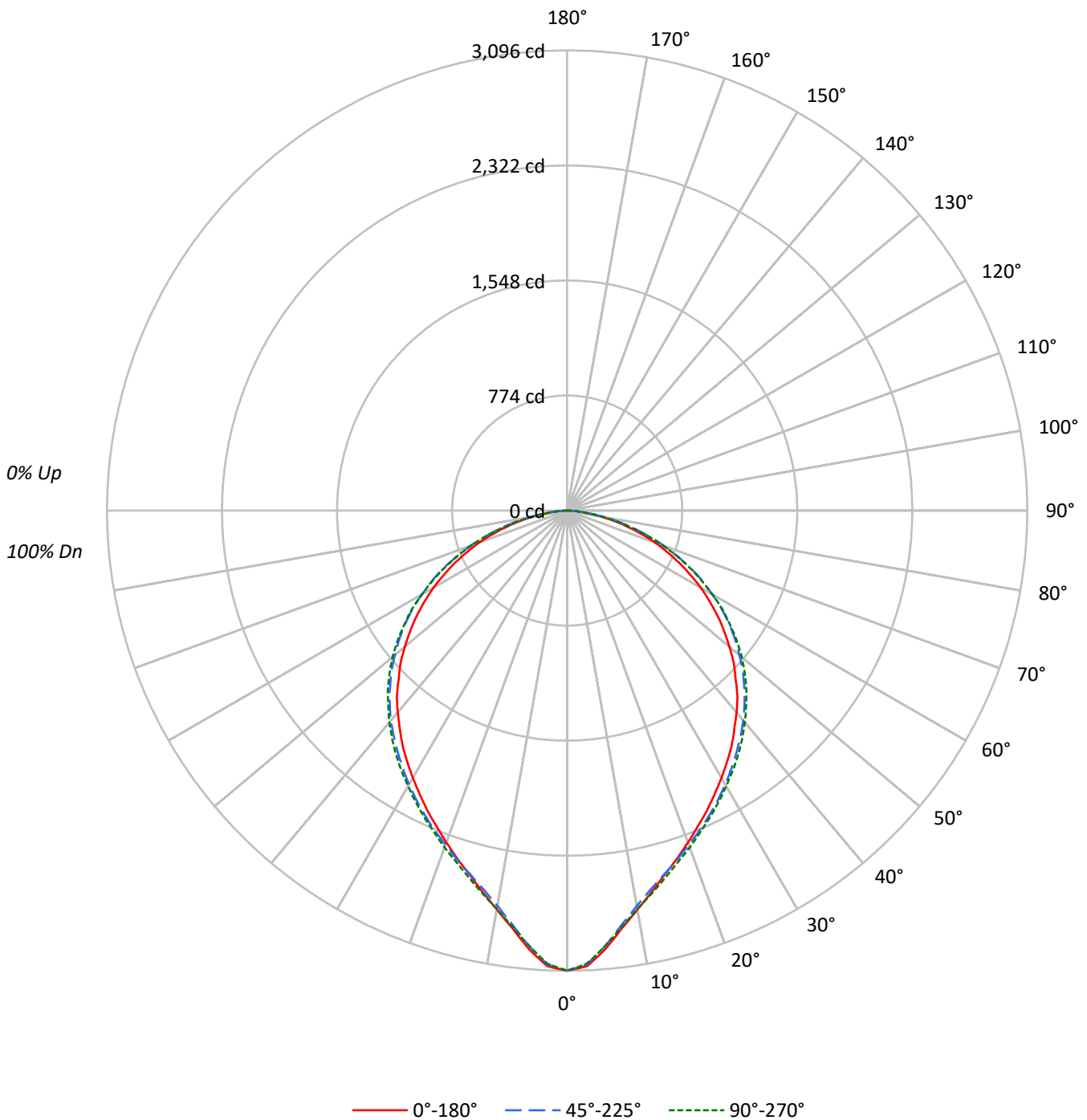
Lumens per Lamp: N/A
Luminaire Lumens: 7190.2 lumens
Efficiency: N/A
Efficacy: 72.0 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 99.9
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°	4165	4165	4165
5°	3999	3971	3971
10°	3722	3688	3717
15°	3532	3525	3560
20°	3402	3427	3453
25°	3305	3359	3378
30°	3225	3305	3325
35°	3170	3263	3296
40°	3114	3240	3267
45°	3050	3209	3247
50°	2982	3168	3211
55°	2899	3122	3135
60°	2795	3037	3031
65°	2649	2920	2901
70°	2474	2723	2690
75°	2183	2413	2388
80°	1774	1966	1870
85°	1230	1254	1206



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.5	3.8
10°-20°	716.5	10.0
20°-30°	1041.9	14.5
30°-40°	1239.8	17.2
40°-50°	1287.3	17.9
50°-60°	1166.3	16.2
60°-70°	880.0	12.2
70°-80°	479.5	6.7
80°-90°	105.4	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°	2031.9	28.3
0°-40°	3271.7	45.5
0°-60°	5725.3	79.6
0°-90°	7190.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7190.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3096	3096	3096	3096	3096	
5°	2961	2954	2940	2938	2940	275
15°	2536	2529	2531	2548	2556	716
25°	2226	2245	2262	2281	2276	1026
35°	1930	1953	1986	2016	2006	1207
45°	1603	1631	1686	1705	1706	1239
55°	1236	1265	1331	1340	1337	1104
65°	832	856	917	916	911	823
75°	420	437	464	467	459	447
85°	80	80	81	80	78	101
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3095.5	3095.5	3095.5	3095.5	3095.5
2.5°	3068.4	3065.3	3055.3	3051.4	3050.6
5°	2960.9	2953.9	2940.0	2938.5	2940.0
7.5°	2832.5	2824.7	2810.9	2816.3	2823.2
10°	2724.2	2704.9	2699.4	2707.2	2720.3
12.5°	2627.5	2612.0	2607.4	2627.5	2636.8
15°	2535.5	2529.3	2530.8	2547.9	2555.6
17.5°	2455.8	2452.0	2462.0	2475.2	2479.0
20°	2376.1	2383.9	2393.2	2407.1	2411.7
22.5°	2298.0	2312.7	2328.2	2346.8	2340.6
25°	2226.1	2244.6	2262.5	2281.0	2275.6
27.5°	2149.5	2171.1	2195.9	2216.0	2208.3
30°	2076.0	2103.1	2127.1	2151.8	2140.2
32.5°	2003.4	2028.9	2057.5	2087.6	2074.5
35°	1929.8	1953.1	1986.3	2016.5	2006.4
37.5°	1848.6	1877.2	1915.1	1941.4	1934.5
40°	1772.8	1799.1	1844.8	1861.8	1860.2
42.5°	1696.2	1717.9	1765.9	1785.2	1782.1
45°	1602.7	1631.3	1686.2	1704.8	1706.3
47.5°	1519.9	1543.9	1602.7	1617.3	1620.4
50°	1424.8	1454.9	1513.7	1531.5	1533.8
52.5°	1331.1	1363.6	1424.0	1436.3	1438.7
55°	1236.0	1265.4	1331.1	1340.5	1336.6
57.5°	1136.3	1171.8	1232.2	1236.8	1240.7
60°	1038.8	1069.7	1128.5	1134.7	1126.2
62.5°	932.8	964.5	1024.9	1026.4	1019.4
65°	832.2	856.2	917.3	915.8	911.1
67.5°	727.0	756.4	801.3	802.9	799.0
70°	628.8	648.9	692.3	693.1	683.8
72.5°	522.9	544.5	579.3	574.7	572.4
75°	420.0	437.0	464.1	467.2	459.4
77.5°	325.7	338.0	358.1	355.8	347.3
80°	228.9	239.0	253.7	250.6	241.3
82.5°	146.2	152.4	161.7	157.8	153.9
85°	79.7	80.4	81.2	80.4	78.1
87.5°	29.4	30.2	30.2	29.4	27.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)