

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: P489798

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-2HI-40-120-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: P489798
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-LD4-2HI-40-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

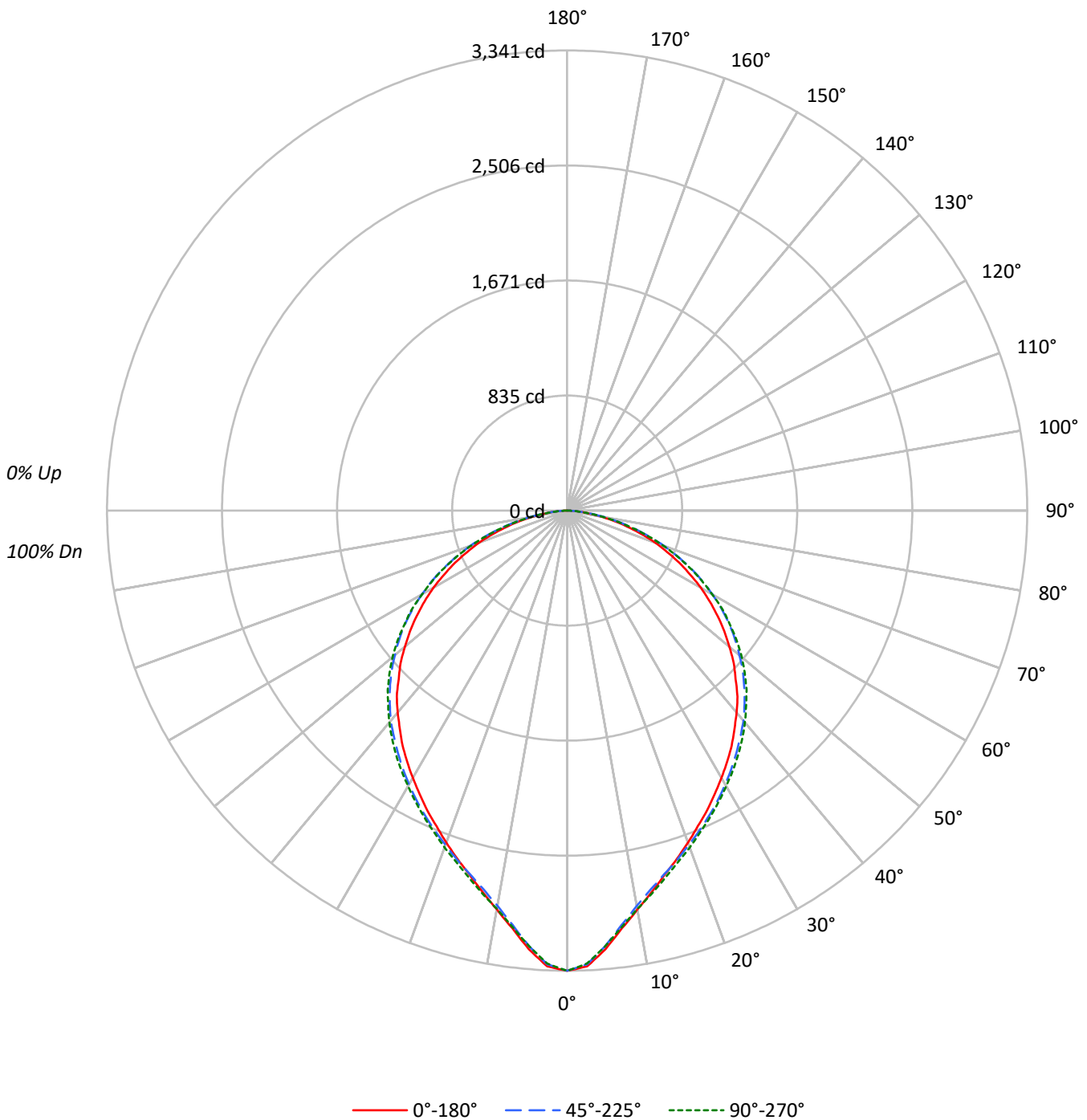
Lumens per Lamp: N/A
Luminaire Lumens: 7760.7 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 86.4
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

TEST NUMBER: P489798

CATALOG NUMBER: CLM-24-4-INS-P12125-LD4-2HI-40-120-EDD-90

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°	4495	4495	4495
5°	4316	4286	4286
10°	4017	3981	4012
15°	3812	3805	3842
20°	3672	3699	3727
25°	3567	3625	3646
30°	3481	3567	3589
35°	3421	3521	3557
40°	3361	3497	3527
45°	3291	3463	3504
50°	3219	3420	3465
55°	3130	3370	3384
60°	3017	3278	3271
65°	2860	3152	3131
70°	2670	2939	2903
75°	2357	2604	2578
80°	1915	2122	2018
85°	1328	1352	1301



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.2	3.8
10°-20°	773.3	10.0
20°-30°	1124.5	14.5
30°-40°	1338.2	17.2
40°-50°	1389.5	17.9
50°-60°	1258.8	16.2
60°-70°	949.9	12.2
70°-80°	517.5	6.7
80°-90°	113.7	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°	2193.1	28.3
0°-40°	3531.3	45.5
0°-60°	6179.5	79.6
0°-90°	7760.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7760.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3341	3341	3341	3341	3341	
5°	3196	3188	3173	3172	3173	297
15°	2737	2730	2732	2750	2758	772
25°	2403	2423	2442	2462	2456	1107
35°	2083	2108	2144	2176	2166	1302
45°	1730	1761	1820	1840	1842	1337
55°	1334	1366	1437	1447	1443	1191
65°	898	924	990	988	983	888
75°	453	472	501	504	496	483
85°	86	87	88	87	84	109
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3341.1	3341.1	3341.1	3341.1	3341.1
2.5°	3311.9	3308.5	3297.7	3293.5	3292.6
5°	3195.8	3188.3	3173.3	3171.6	3173.3
7.5°	3057.2	3048.9	3033.9	3039.7	3047.2
10°	2940.4	2919.5	2913.6	2922.0	2936.2
12.5°	2836.0	2819.3	2814.3	2836.0	2846.1
15°	2736.6	2730.0	2731.7	2750.0	2758.3
17.5°	2650.7	2646.5	2657.4	2671.5	2675.7
20°	2564.7	2573.1	2583.1	2598.1	2603.1
22.5°	2480.4	2496.2	2512.9	2533.0	2526.3
25°	2402.7	2422.7	2442.0	2462.0	2456.2
27.5°	2320.1	2343.4	2370.2	2391.9	2383.5
30°	2240.7	2270.0	2295.9	2322.5	2310.1
32.5°	2162.3	2189.8	2220.7	2253.3	2239.1
35°	2083.0	2108.0	2143.9	2176.5	2165.6
37.5°	1995.3	2026.2	2067.1	2095.5	2088.0
40°	1913.5	1941.9	1991.1	2009.5	2007.8
42.5°	1830.8	1854.2	1906.0	1926.8	1923.5
45°	1729.8	1760.7	1820.0	1840.1	1841.7
47.5°	1640.5	1666.4	1729.8	1745.7	1749.0
50°	1537.8	1570.4	1633.8	1653.0	1655.5
52.5°	1436.8	1471.8	1537.0	1550.3	1552.9
55°	1334.1	1365.8	1436.8	1446.8	1442.6
57.5°	1226.4	1264.8	1330.0	1334.9	1339.1
60°	1121.2	1154.6	1218.0	1224.7	1215.6
62.5°	1006.9	1041.1	1106.2	1107.8	1100.3
65°	898.3	924.2	990.1	988.5	983.4
67.5°	784.7	816.5	864.9	866.6	862.4
70°	678.7	700.4	747.2	748.0	738.0
72.5°	564.4	587.7	625.3	620.3	617.8
75°	453.3	471.7	500.9	504.3	495.9
77.5°	351.5	364.8	386.5	384.1	374.8
80°	247.1	258.0	273.9	270.5	260.4
82.5°	157.8	164.5	174.5	170.3	166.1
85°	86.0	86.8	87.6	86.8	84.3
87.5°	31.7	32.6	32.6	31.7	29.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)