

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: P489826

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-3HI-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: P489826
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-LD4-3HI-20-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

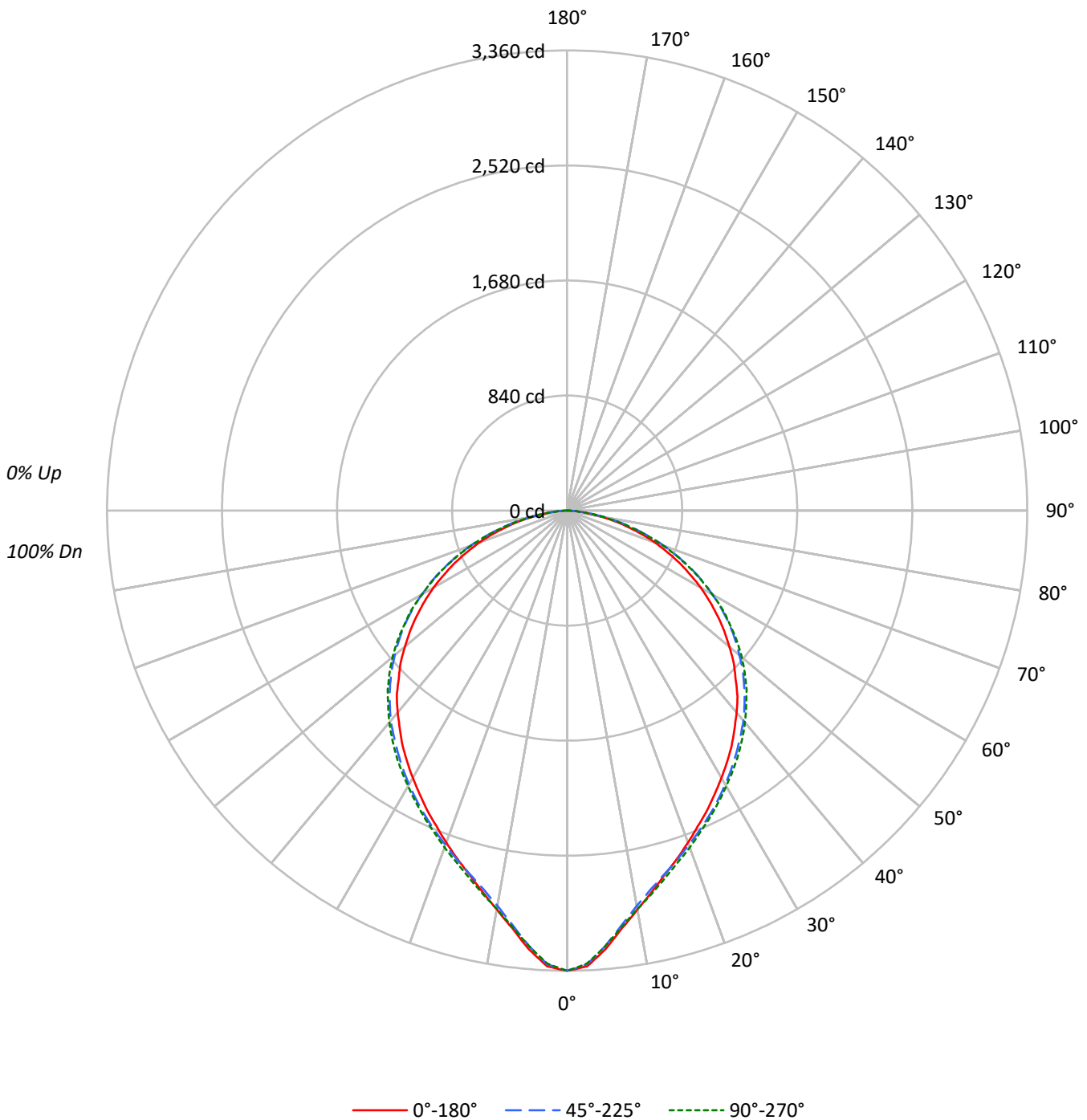
Lumens per Lamp: N/A
Luminaire Lumens: 7805.1 lumens
Efficiency: N/A
Efficacy: 60.2 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 129.6
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°	4521	4521	4521
5°	4341	4310	4310
10°	4040	4004	4035
15°	3834	3827	3864
20°	3693	3720	3749
25°	3587	3646	3667
30°	3501	3587	3610
35°	3441	3542	3577
40°	3380	3517	3547
45°	3310	3483	3524
50°	3237	3440	3485
55°	3147	3390	3404
60°	3034	3296	3290
65°	2876	3170	3149
70°	2685	2956	2920
75°	2370	2619	2593
80°	1925	2134	2029
85°	1335	1360	1309



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.9	3.8
10°-20°	777.7	10.0
20°-30°	1131.0	14.5
30°-40°	1345.8	17.2
40°-50°	1397.4	17.9
50°-60°	1266.0	16.2
60°-70°	955.3	12.2
70°-80°	520.5	6.7
80°-90°	114.4	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°	2205.6	28.3
0°-40°	3551.4	45.5
0°-60°	6214.9	79.6
0°-90°	7805.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7805.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3360	3360	3360	3360	3360	
5°	3214	3207	3191	3190	3191	298
15°	2752	2746	2747	2766	2774	777
25°	2416	2437	2456	2476	2470	1114
35°	2095	2120	2156	2189	2178	1310
45°	1740	1771	1830	1851	1852	1345
55°	1342	1374	1445	1455	1451	1198
65°	903	930	996	994	989	893
75°	456	474	504	507	499	486
85°	86	87	88	87	85	109
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3360.2	3360.2	3360.2	3360.2	3360.2
2.5°	3330.8	3327.5	3316.5	3312.3	3311.5
5°	3214.1	3206.6	3191.4	3189.8	3191.4
7.5°	3074.7	3066.3	3051.3	3057.1	3064.7
10°	2957.2	2936.2	2930.3	2938.7	2953.0
12.5°	2852.2	2835.4	2830.4	2852.2	2862.3
15°	2752.3	2745.6	2747.3	2765.8	2774.1
17.5°	2665.9	2661.6	2672.6	2686.8	2691.0
20°	2579.3	2587.8	2597.8	2613.0	2618.0
22.5°	2494.6	2510.5	2527.3	2547.4	2540.7
25°	2416.5	2436.6	2455.9	2476.1	2470.2
27.5°	2333.3	2356.8	2383.7	2405.6	2397.1
30°	2253.5	2282.9	2309.0	2335.8	2323.3
32.5°	2174.7	2202.4	2233.4	2266.2	2251.9
35°	2094.9	2120.1	2156.2	2188.9	2178.0
37.5°	2006.7	2037.8	2078.9	2107.4	2099.9
40°	1924.4	1953.0	2002.5	2021.0	2019.3
42.5°	1841.3	1864.9	1916.9	1937.9	1934.5
45°	1739.7	1770.8	1830.4	1850.6	1852.2
47.5°	1649.9	1675.9	1739.7	1755.7	1759.0
50°	1546.6	1579.4	1643.2	1662.4	1665.0
52.5°	1445.0	1480.2	1545.8	1559.2	1561.7
55°	1341.7	1373.6	1445.0	1455.1	1450.9
57.5°	1233.4	1272.0	1337.6	1342.6	1346.8
60°	1127.6	1161.2	1225.0	1231.7	1222.5
62.5°	1012.6	1047.0	1112.5	1114.2	1106.6
65°	903.4	929.5	995.8	994.1	989.1
67.5°	789.2	821.1	869.9	871.5	867.4
70°	682.6	704.4	751.5	752.3	742.3
72.5°	567.6	591.1	628.9	623.9	621.4
75°	455.9	474.4	503.8	507.2	498.7
77.5°	353.5	366.9	388.8	386.3	377.0
80°	248.5	259.4	275.4	272.1	261.9
82.5°	158.7	165.4	175.5	171.3	167.1
85°	86.5	87.3	88.1	87.3	84.8
87.5°	31.9	32.8	32.8	31.9	29.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)