

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: P489331

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-4HI-40-120-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: P489331
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-LD4-4HI-40-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

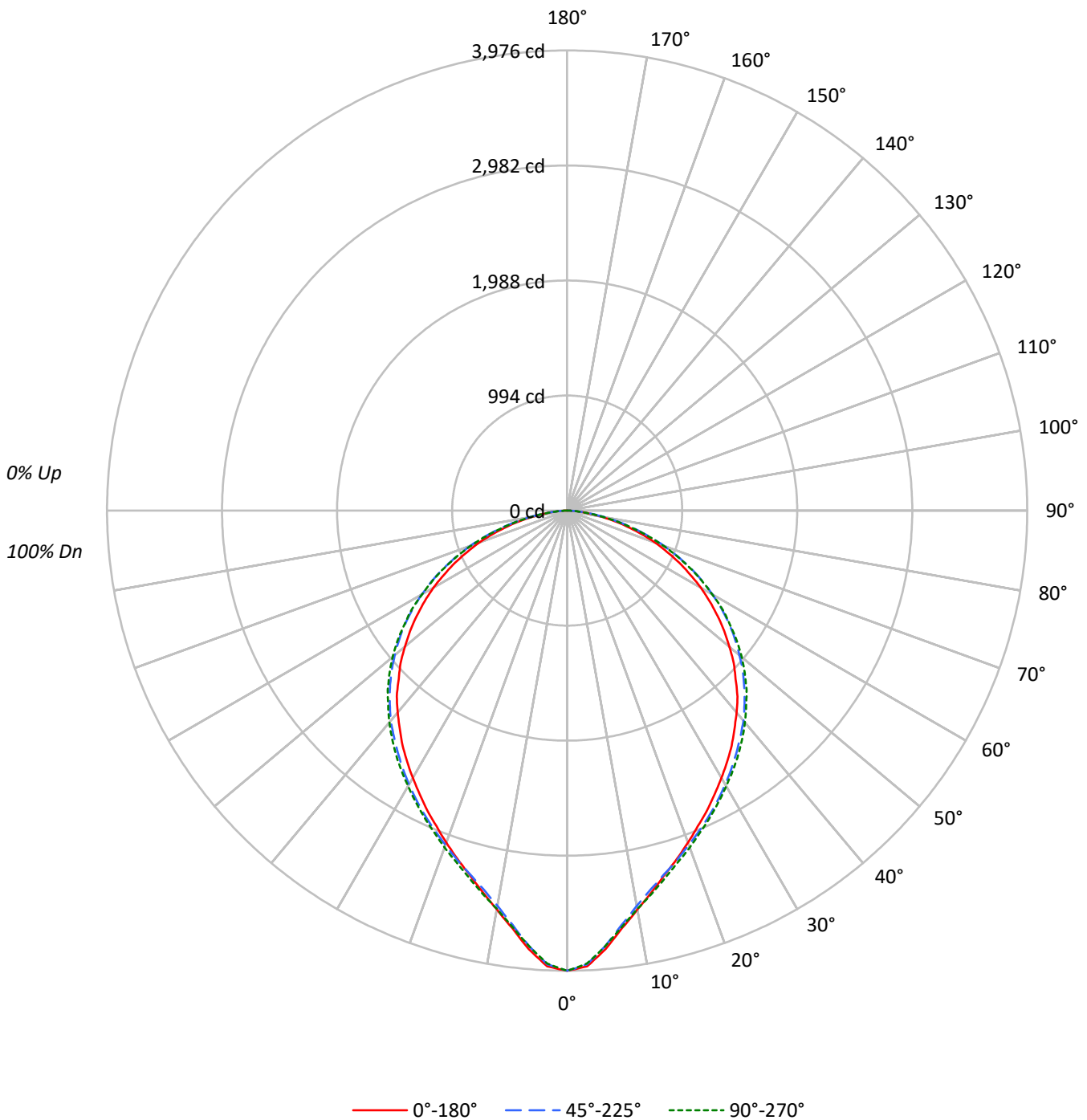
Lumens per Lamp: N/A
Luminaire Lumens: 9236.0 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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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°	10700	10700	10700
5°	10274	10201	10201
10°	9562	9475	9548
15°	9073	9057	9145
20°	8741	8803	8871
25°	8490	8629	8679
30°	8286	8490	8543
35°	8143	8382	8467
40°	8000	8324	8394
45°	7835	8243	8341
50°	7662	8140	8249
55°	7449	8022	8055
60°	7181	7802	7786
65°	6807	7503	7452
70°	6355	6996	6910
75°	5609	6199	6136
80°	4558	5050	4804
85°	3162	3220	3097



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	351.4	3.8
10°-20°	920.3	10.0
20°-30°	1338.3	14.5
30°-40°	1592.5	17.2
40°-50°	1653.6	17.9
50°-60°	1498.1	16.2
60°-70°	1130.5	12.2
70°-80°	615.9	6.7
80°-90°	135.4	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°	2610.0	28.3
0°-40°	4202.5	45.5
0°-60°	7354.2	79.6
0°-90°	9236.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9236.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3976	3976	3976	3976	3976	
5°	3803	3794	3776	3775	3776	353
15°	3257	3249	3251	3273	3283	919
25°	2860	2883	2906	2930	2923	1318
35°	2479	2509	2552	2590	2577	1550
45°	2059	2095	2166	2190	2192	1591
55°	1588	1625	1710	1722	1717	1418
65°	1069	1100	1178	1176	1170	1057
75°	540	561	596	600	590	575
85°	102	103	104	103	100	129
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3976.2	3976.2	3976.2	3976.2	3976.2
2.5°	3941.4	3937.5	3924.6	3919.6	3918.6
5°	3803.4	3794.4	3776.5	3774.6	3776.5
7.5°	3638.4	3628.5	3610.6	3617.6	3626.5
10°	3499.3	3474.5	3467.5	3477.5	3494.3
12.5°	3375.1	3355.2	3349.2	3375.1	3387.1
15°	3256.9	3248.9	3250.9	3272.8	3282.7
17.5°	3154.6	3149.6	3162.5	3179.4	3184.4
20°	3052.2	3062.2	3074.1	3092.0	3097.9
22.5°	2951.9	2970.7	2990.7	3014.5	3006.5
25°	2859.5	2883.3	2906.2	2930.0	2923.1
27.5°	2761.1	2788.9	2820.7	2846.6	2836.6
30°	2666.7	2701.5	2732.3	2764.1	2749.2
32.5°	2573.4	2606.1	2642.9	2681.6	2664.7
35°	2478.9	2508.7	2551.5	2590.2	2577.3
37.5°	2374.6	2411.4	2460.0	2493.8	2484.9
40°	2277.3	2311.0	2369.6	2391.5	2389.5
42.5°	2178.9	2206.7	2268.3	2293.1	2289.2
45°	2058.7	2095.4	2165.9	2189.8	2191.8
47.5°	1952.4	1983.2	2058.7	2077.5	2081.5
50°	1830.1	1868.9	1944.4	1967.2	1970.3
52.5°	1709.9	1751.6	1829.1	1845.0	1848.1
55°	1587.7	1625.4	1709.9	1721.9	1716.9
57.5°	1459.6	1505.2	1582.8	1588.7	1593.7
60°	1334.3	1374.1	1449.6	1457.5	1446.6
62.5°	1198.3	1239.0	1316.5	1318.4	1309.5
65°	1069.0	1099.9	1178.3	1176.4	1170.4
67.5°	933.9	971.7	1029.3	1031.3	1026.4
70°	807.7	833.6	889.2	890.2	878.3
72.5°	671.7	699.5	744.1	738.2	735.3
75°	539.5	561.4	596.2	600.1	590.2
77.5°	418.3	434.2	460.0	457.1	446.1
80°	294.1	307.0	325.9	321.9	310.0
82.5°	187.7	195.8	207.7	202.7	197.7
85°	102.4	103.3	104.3	103.3	100.3
87.5°	37.8	38.8	38.8	37.8	34.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)