

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: P489912

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-5LO-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: P489912
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-LD4-5LO-27-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

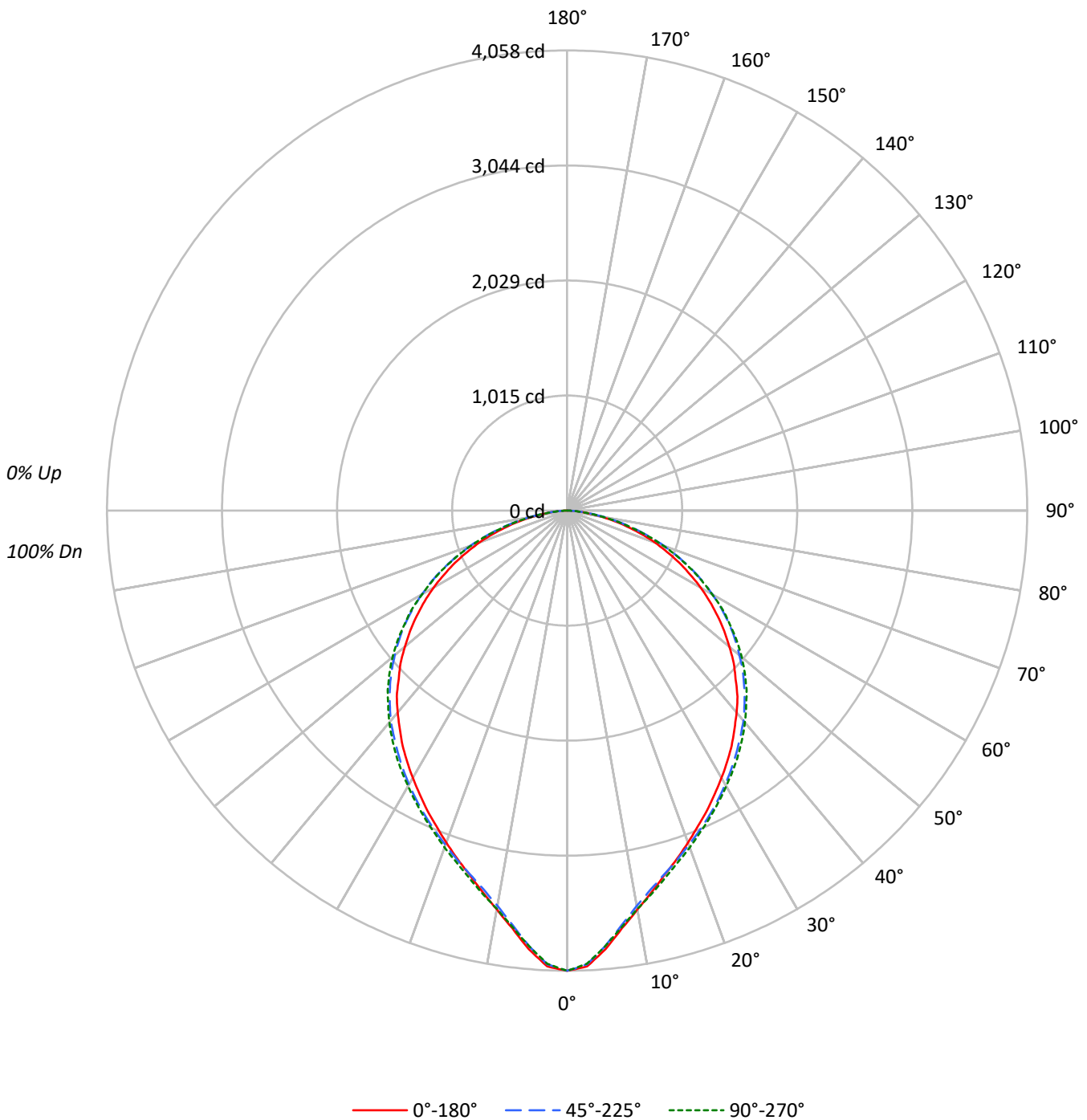
Lumens per Lamp: N/A
Luminaire Lumens: 9426.8 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 117
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°	5461	5461	5461
5°	5243	5206	5206
10°	4880	4835	4873
15°	4630	4622	4667
20°	4461	4493	4527
25°	4333	4404	4429
30°	4229	4333	4360
35°	4156	4278	4321
40°	4082	4248	4284
45°	3998	4207	4257
50°	3910	4154	4209
55°	3801	4094	4111
60°	3665	3981	3973
65°	3474	3829	3803
70°	3243	3570	3527
75°	2862	3163	3132
80°	2325	2577	2452
85°	1613	1644	1581



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	358.6	3.8
10°-20°	939.3	10.0
20°-30°	1366.0	14.5
30°-40°	1625.5	17.2
40°-50°	1687.8	17.9
50°-60°	1529.0	16.2
60°-70°	1153.8	12.2
70°-80°	628.7	6.7
80°-90°	138.1	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°	2663.9	28.3
0°-40°	4289.4	45.5
0°-60°	7506.2	79.6
0°-90°	9426.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9426.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4058	4058	4058	4058	4058	
5°	3882	3873	3854	3852	3854	360
15°	3324	3316	3318	3340	3350	938
25°	2919	2943	2966	2990	2984	1345
35°	2530	2561	2604	2644	2631	1582
45°	2101	2139	2211	2235	2237	1624
55°	1620	1659	1745	1757	1752	1447
65°	1091	1123	1203	1201	1195	1079
75°	551	573	608	612	602	587
85°	104	105	106	105	102	132
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4058.4	4058.4	4058.4	4058.4	4058.4
2.5°	4022.9	4018.8	4005.6	4000.5	3999.5
5°	3881.9	3872.8	3854.5	3852.5	3854.5
7.5°	3713.6	3703.4	3685.2	3692.3	3701.4
10°	3571.6	3546.3	3539.1	3549.3	3566.5
12.5°	3444.8	3424.6	3418.4	3444.8	3457.1
15°	3324.1	3316.0	3318.1	3340.4	3350.5
17.5°	3219.7	3214.7	3227.8	3245.1	3250.2
20°	3115.3	3125.4	3137.6	3155.9	3161.9
22.5°	3012.9	3032.1	3052.4	3076.7	3068.6
25°	2918.6	2942.9	2966.2	2990.5	2983.5
27.5°	2818.1	2846.5	2879.0	2905.4	2895.2
30°	2721.8	2757.3	2788.7	2821.2	2806.0
32.5°	2626.5	2660.0	2697.5	2737.0	2719.8
35°	2530.1	2560.6	2604.2	2643.8	2630.6
37.5°	2423.7	2461.2	2510.8	2545.3	2536.3
40°	2324.3	2358.8	2418.6	2440.9	2438.9
42.5°	2223.9	2252.3	2315.2	2340.5	2336.5
45°	2101.2	2138.7	2210.7	2235.1	2237.1
47.5°	1992.7	2024.2	2101.2	2120.4	2124.5
50°	1868.0	1907.5	1984.6	2007.9	2011.0
52.5°	1745.2	1787.8	1866.9	1883.1	1886.2
55°	1620.5	1659.0	1745.2	1757.4	1752.4
57.5°	1489.7	1536.3	1615.5	1621.5	1626.6
60°	1361.9	1402.5	1479.5	1487.6	1476.5
62.5°	1223.0	1264.6	1343.7	1345.7	1336.5
65°	1091.1	1122.6	1202.7	1200.7	1194.6
67.5°	953.2	991.7	1050.6	1052.6	1047.6
70°	824.4	850.8	907.6	908.6	896.5
72.5°	685.5	713.9	759.5	753.5	750.5
75°	550.6	573.0	608.5	612.5	602.4
77.5°	426.9	443.2	469.5	466.5	455.3
80°	300.1	313.3	332.6	328.6	316.4
82.5°	191.6	199.8	212.0	206.9	201.8
85°	104.5	105.4	106.5	105.4	102.4
87.5°	38.5	39.6	39.6	38.5	35.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)