

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: P489877

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-4LO-27-120-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: P489877
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-LD4-4LO-27-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

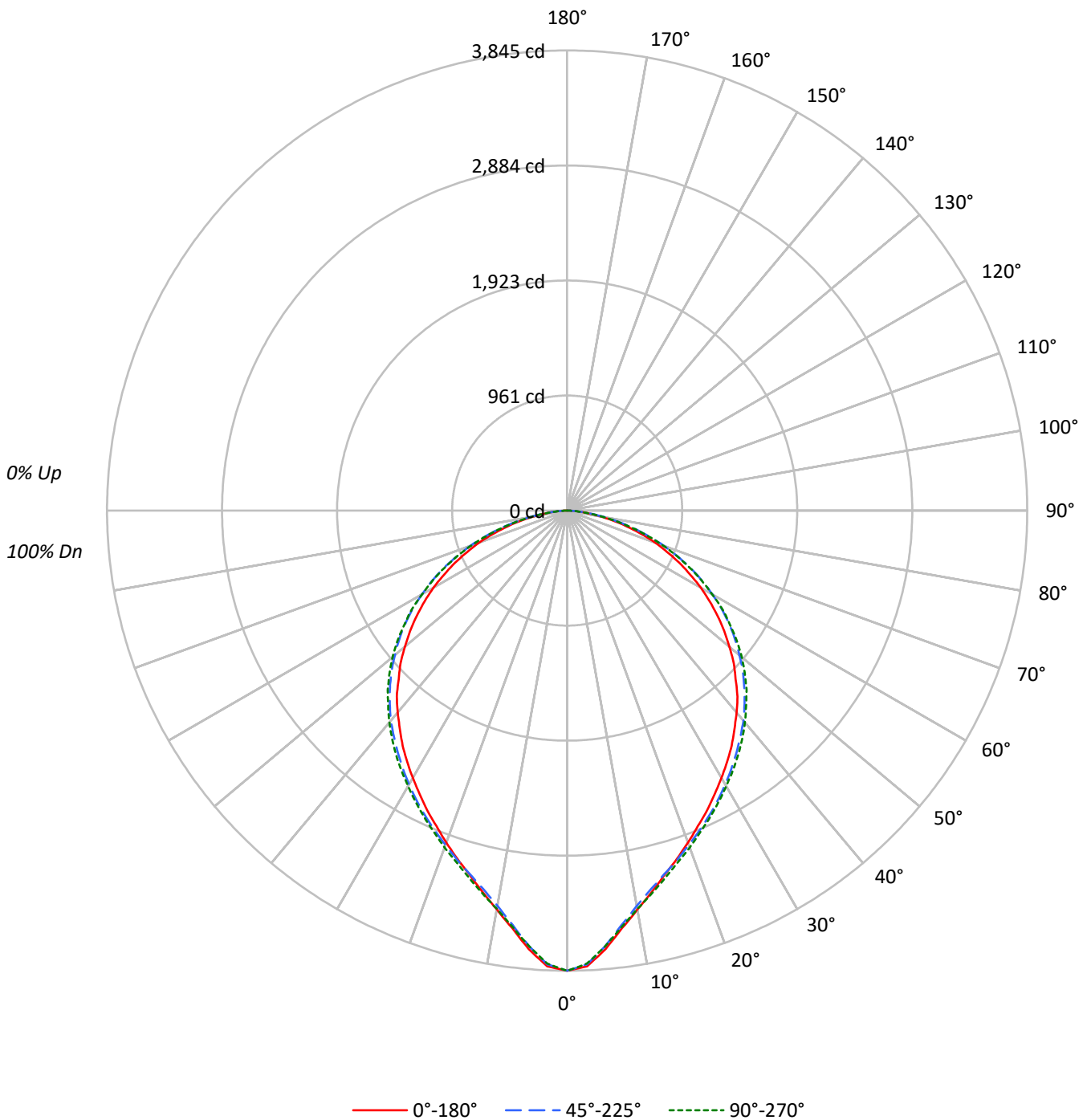
Lumens per Lamp: N/A
Luminaire Lumens: 8931.2 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 93.6
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	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°	5173	5173	5173
5°	4967	4932	4932
10°	4623	4581	4617
15°	4387	4379	4422
20°	4226	4256	4289
25°	4105	4172	4196
30°	4006	4105	4130
35°	3937	4053	4094
40°	3868	4025	4058
45°	3788	3985	4033
50°	3705	3936	3988
55°	3601	3879	3894
60°	3472	3772	3764
65°	3291	3628	3603
70°	3073	3383	3341
75°	2712	2997	2967
80°	2204	2442	2322
85°	1528	1558	1497



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.8	3.8
10°-20°	889.9	10.0
20°-30°	1294.1	14.5
30°-40°	1540.0	17.2
40°-50°	1599.1	17.9
50°-60°	1448.7	16.2
60°-70°	1093.2	12.2
70°-80°	595.6	6.7
80°-90°	130.9	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°	2523.8	28.3
0°-40°	4063.8	45.5
0°-60°	7111.6	79.6
0°-90°	8931.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8931.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3845	3845	3845	3845	3845	
5°	3678	3669	3652	3650	3652	341
15°	3149	3142	3144	3165	3174	889
25°	2765	2788	2810	2833	2827	1274
35°	2397	2426	2467	2505	2492	1499
45°	1991	2026	2094	2118	2120	1539
55°	1535	1572	1654	1665	1660	1371
65°	1034	1064	1139	1138	1132	1022
75°	522	543	576	580	571	556
85°	99	100	101	100	97	125
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3845.0	3845.0	3845.0	3845.0	3845.0
2.5°	3811.4	3807.5	3795.0	3790.2	3789.2
5°	3677.8	3669.2	3651.9	3650.0	3651.9
7.5°	3518.4	3508.7	3491.5	3498.2	3506.8
10°	3383.8	3359.8	3353.1	3362.7	3379.0
12.5°	3263.7	3244.5	3238.7	3263.7	3275.3
15°	3149.4	3141.7	3143.7	3164.8	3174.4
17.5°	3050.5	3045.7	3058.1	3074.5	3079.3
20°	2951.5	2961.1	2972.6	2990.0	2995.7
22.5°	2854.5	2872.7	2892.0	2915.0	2907.3
25°	2765.1	2788.2	2810.3	2833.3	2826.6
27.5°	2670.0	2696.8	2727.6	2752.6	2743.0
30°	2578.7	2612.3	2642.1	2672.8	2658.5
32.5°	2488.4	2520.1	2555.6	2593.1	2576.8
35°	2397.1	2426.0	2467.3	2504.8	2492.3
37.5°	2296.3	2331.8	2378.8	2411.5	2402.9
40°	2202.1	2234.8	2291.4	2312.6	2310.6
42.5°	2107.0	2133.9	2193.4	2217.5	2213.6
45°	1990.7	2026.3	2094.5	2117.6	2119.5
47.5°	1887.9	1917.7	1990.7	2009.0	2012.8
50°	1769.8	1807.2	1880.2	1902.3	1905.2
52.5°	1653.5	1693.8	1768.8	1784.1	1787.1
55°	1535.3	1571.8	1653.5	1665.1	1660.2
57.5°	1411.4	1455.6	1530.5	1536.3	1541.1
60°	1290.3	1328.7	1401.8	1409.4	1398.9
62.5°	1158.7	1198.1	1273.0	1274.9	1266.3
65°	1033.8	1063.6	1139.4	1137.6	1131.8
67.5°	903.1	939.6	995.4	997.3	992.5
70°	781.1	806.1	859.9	860.9	849.3
72.5°	649.5	676.4	719.6	713.9	711.0
75°	521.7	542.8	576.5	580.3	570.7
77.5°	404.5	419.9	444.8	442.0	431.4
80°	284.4	296.9	315.2	311.3	299.7
82.5°	181.5	189.3	200.8	196.0	191.2
85°	99.0	99.9	100.9	99.9	97.0
87.5°	36.5	37.5	37.5	36.5	33.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)