

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: P489855

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-3STD-30-120-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: P489855  
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-LD4-3STD-30-120-EDD  
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

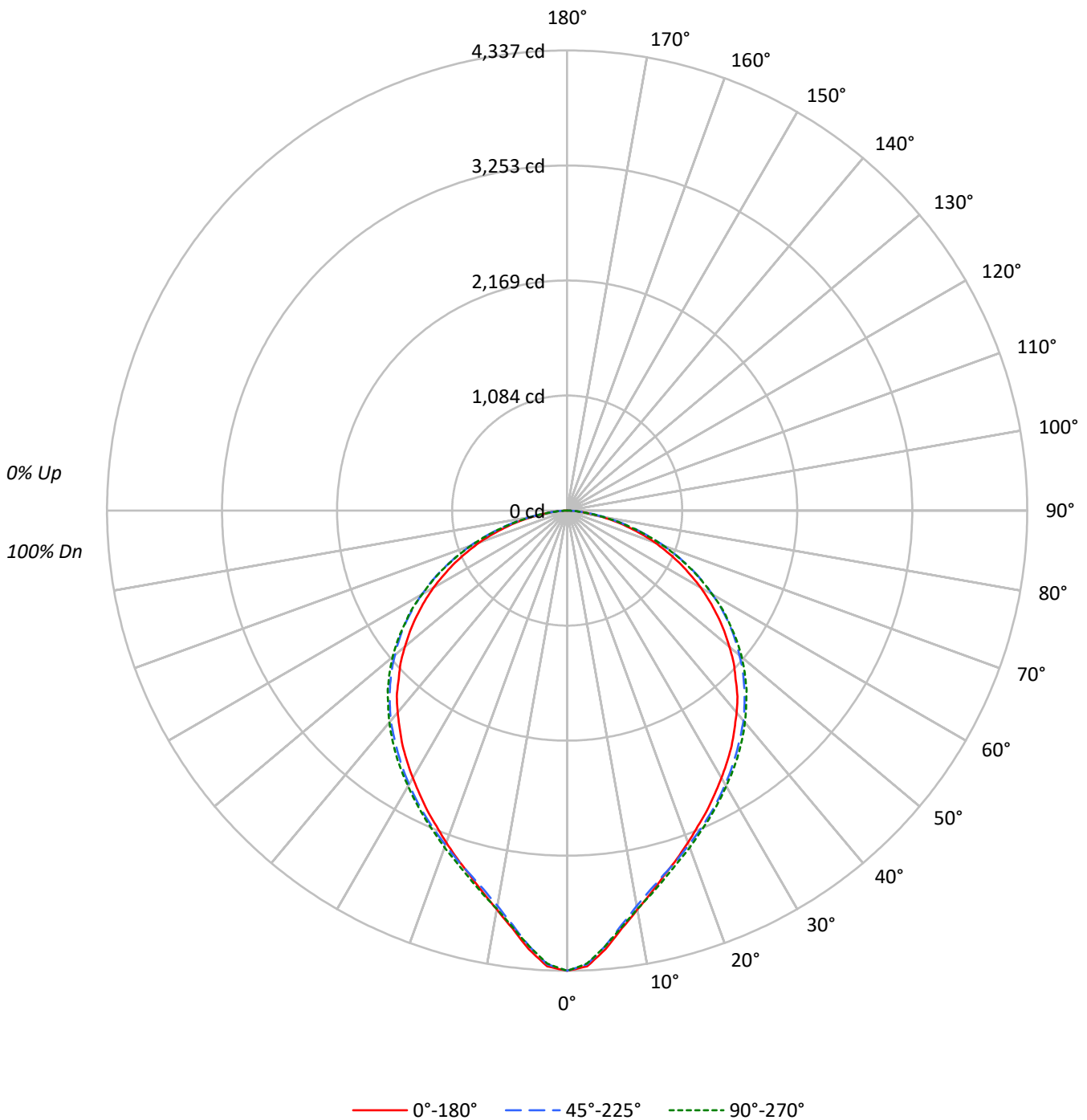
Lumens per Lamp: N/A  
Luminaire Lumens: 10074.4 lumens  
Efficiency: N/A  
Efficacy: 100.8 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 99.9  
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°	5836	5836	5836
5°	5603	5564	5564
10°	5215	5167	5207
15°	4948	4939	4988
20°	4767	4801	4838
25°	4631	4706	4733
30°	4519	4630	4659
35°	4441	4571	4618
40°	4363	4540	4578
45°	4273	4496	4549
50°	4179	4439	4499
55°	4062	4375	4393
60°	3916	4255	4246
65°	3713	4092	4064
70°	3466	3816	3769
75°	3059	3381	3346
80°	2486	2755	2620
85°	1724	1757	1689



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	383.2	3.8
10°-20°	1003.9	10.0
20°-30°	1459.8	14.5
30°-40°	1737.1	17.2
40°-50°	1803.7	17.9
50°-60°	1634.1	16.2
60°-70°	1233.1	12.2
70°-80°	671.9	6.7
80°-90°	147.6	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°	2846.9	28.3
0°-40°	4584.0	45.5
0°-60°	8021.9	79.6
0°-90°	10074.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10074.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4337	4337	4337	4337	4337	
5°	4149	4139	4119	4117	4119	385
15°	3552	3544	3546	3570	3581	1003
25°	3119	3145	3170	3196	3188	1437
35°	2704	2736	2783	2825	2811	1691
45°	2246	2286	2363	2389	2391	1736
55°	1732	1773	1865	1878	1873	1546
65°	1166	1200	1285	1283	1277	1153
75°	588	612	650	655	644	627
85°	112	113	114	113	109	141
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4337.2	4337.2	4337.2	4337.2	4337.2
2.5°	4299.2	4294.9	4280.8	4275.4	4274.3
5°	4148.6	4138.9	4119.3	4117.2	4119.3
7.5°	3968.7	3957.8	3938.4	3945.9	3955.7
10°	3817.0	3789.9	3782.2	3793.1	3811.5
12.5°	3681.5	3659.8	3653.3	3681.5	3694.5
15°	3552.5	3543.8	3546.0	3569.9	3580.7
17.5°	3440.9	3435.5	3449.6	3468.0	3473.5
20°	3329.3	3340.2	3353.1	3372.7	3379.1
22.5°	3219.8	3240.4	3262.1	3288.1	3279.4
25°	3119.1	3145.0	3170.0	3196.0	3188.4
27.5°	3011.7	3042.0	3076.8	3105.0	3094.1
30°	2908.7	2946.7	2980.3	3015.0	2998.8
32.5°	2807.0	2842.7	2882.8	2925.1	2906.6
35°	2704.0	2736.5	2783.1	2825.4	2811.3
37.5°	2590.2	2630.3	2683.3	2720.2	2710.5
40°	2484.0	2520.8	2584.8	2608.6	2606.4
42.5°	2376.7	2407.1	2474.2	2501.3	2497.0
45°	2245.6	2285.6	2362.6	2388.6	2390.7
47.5°	2129.6	2163.2	2245.6	2266.1	2270.4
50°	1996.3	2038.6	2120.9	2145.8	2149.1
52.5°	1865.1	1910.6	1995.2	2012.5	2015.8
55°	1731.8	1773.0	1865.1	1878.2	1872.7
57.5°	1592.1	1641.9	1726.5	1732.9	1738.3
60°	1455.4	1498.8	1581.2	1589.8	1578.0
62.5°	1307.0	1351.4	1436.0	1438.1	1428.3
65°	1166.1	1199.7	1285.3	1283.2	1276.6
67.5°	1018.7	1059.9	1122.8	1124.9	1119.6
70°	881.1	909.2	970.0	971.1	958.1
72.5°	732.6	763.0	811.7	805.2	802.0
75°	588.5	612.3	650.3	654.6	643.7
77.5°	456.3	473.6	501.8	498.6	486.6
80°	320.8	334.9	355.5	351.2	338.1
82.5°	204.8	213.5	226.5	221.1	215.7
85°	111.7	112.7	113.8	112.7	109.4
87.5°	41.2	42.3	42.3	41.2	38.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)