

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: P489218

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-1HI-30-120-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: P489218  
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-LD4-1HI-30-120-EDD-90  
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

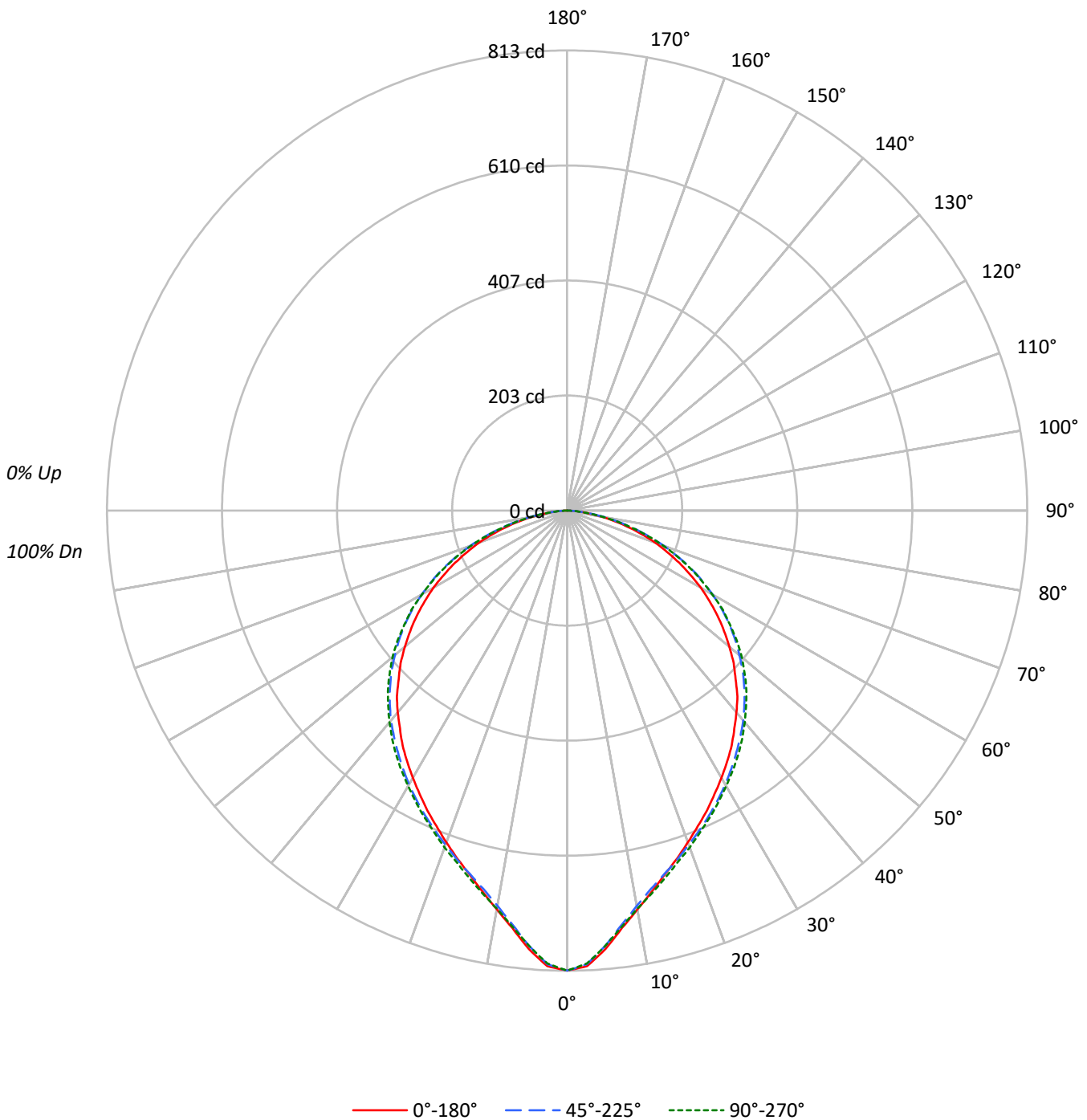
Lumens per Lamp: N/A  
Luminaire Lumens: 1887.7 lumens  
Efficiency: N/A  
Efficacy: 87.4 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 21.6  
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°	2187	2187	2187
5°	2100	2085	2085
10°	1954	1937	1952
15°	1855	1851	1869
20°	1786	1799	1813
25°	1735	1764	1774
30°	1693	1735	1746
35°	1665	1713	1731
40°	1635	1701	1716
45°	1601	1685	1705
50°	1566	1664	1686
55°	1522	1640	1646
60°	1468	1595	1591
65°	1391	1533	1523
70°	1299	1430	1412
75°	1147	1266	1254
80°	931	1032	981
85°	645	658	633



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.8	3.8
10°-20°	188.1	10.0
20°-30°	273.5	14.5
30°-40°	325.5	17.2
40°-50°	338.0	17.9
50°-60°	306.2	16.2
60°-70°	231.1	12.2
70°-80°	125.9	6.7
80°-90°	27.6	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°	533.4	28.3
0°-40°	858.9	45.5
0°-60°	1503.1	79.6
0°-90°	1887.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1887.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	813	813	813	813	813	
5°	777	776	772	772	772	72
15°	666	664	664	669	671	188
25°	584	589	594	599	597	269
35°	507	513	522	529	527	317
45°	421	428	443	448	448	325
55°	324	332	350	352	351	290
65°	218	225	241	240	239	216
75°	110	115	122	123	121	117
85°	21	21	21	21	20	26
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	812.7	812.7	812.7	812.7	812.7
2.5°	805.6	804.8	802.1	801.1	800.9
5°	777.4	775.5	771.9	771.5	771.9
7.5°	743.6	741.6	738.0	739.4	741.2
10°	715.2	710.1	708.7	710.7	714.2
12.5°	689.8	685.8	684.5	689.8	692.3
15°	665.7	664.0	664.4	668.9	670.9
17.5°	644.7	643.7	646.4	649.8	650.8
20°	623.8	625.9	628.3	632.0	633.2
22.5°	603.3	607.2	611.2	616.1	614.5
25°	584.4	589.3	594.0	598.9	597.4
27.5°	564.3	570.0	576.5	581.8	579.8
30°	545.0	552.1	558.4	564.9	561.9
32.5°	526.0	532.7	540.2	548.1	544.6
35°	506.7	512.8	521.5	529.4	526.8
37.5°	485.3	492.8	502.8	509.7	507.9
40°	465.4	472.3	484.3	488.8	488.4
42.5°	445.3	451.0	463.6	468.7	467.9
45°	420.8	428.3	442.7	447.6	448.0
47.5°	399.0	405.3	420.8	424.6	425.4
50°	374.1	382.0	397.4	402.1	402.7
52.5°	349.5	358.0	373.8	377.1	377.7
55°	324.5	332.2	349.5	351.9	350.9
57.5°	298.3	307.7	323.5	324.7	325.7
60°	272.7	280.8	296.3	297.9	295.7
62.5°	244.9	253.2	269.1	269.5	267.6
65°	218.5	224.8	240.8	240.4	239.2
67.5°	190.9	198.6	210.4	210.8	209.8
70°	165.1	170.4	181.7	182.0	179.5
72.5°	137.3	143.0	152.1	150.9	150.3
75°	110.3	114.7	121.8	122.7	120.6
77.5°	85.5	88.7	94.0	93.4	91.2
80°	60.1	62.7	66.6	65.8	63.3
82.5°	38.4	40.0	42.4	41.4	40.4
85°	20.9	21.1	21.3	21.1	20.5
87.5°	7.7	7.9	7.9	7.7	7.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)