

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: P489325

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-4HI-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: P489325  
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-27-120-EDD  
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

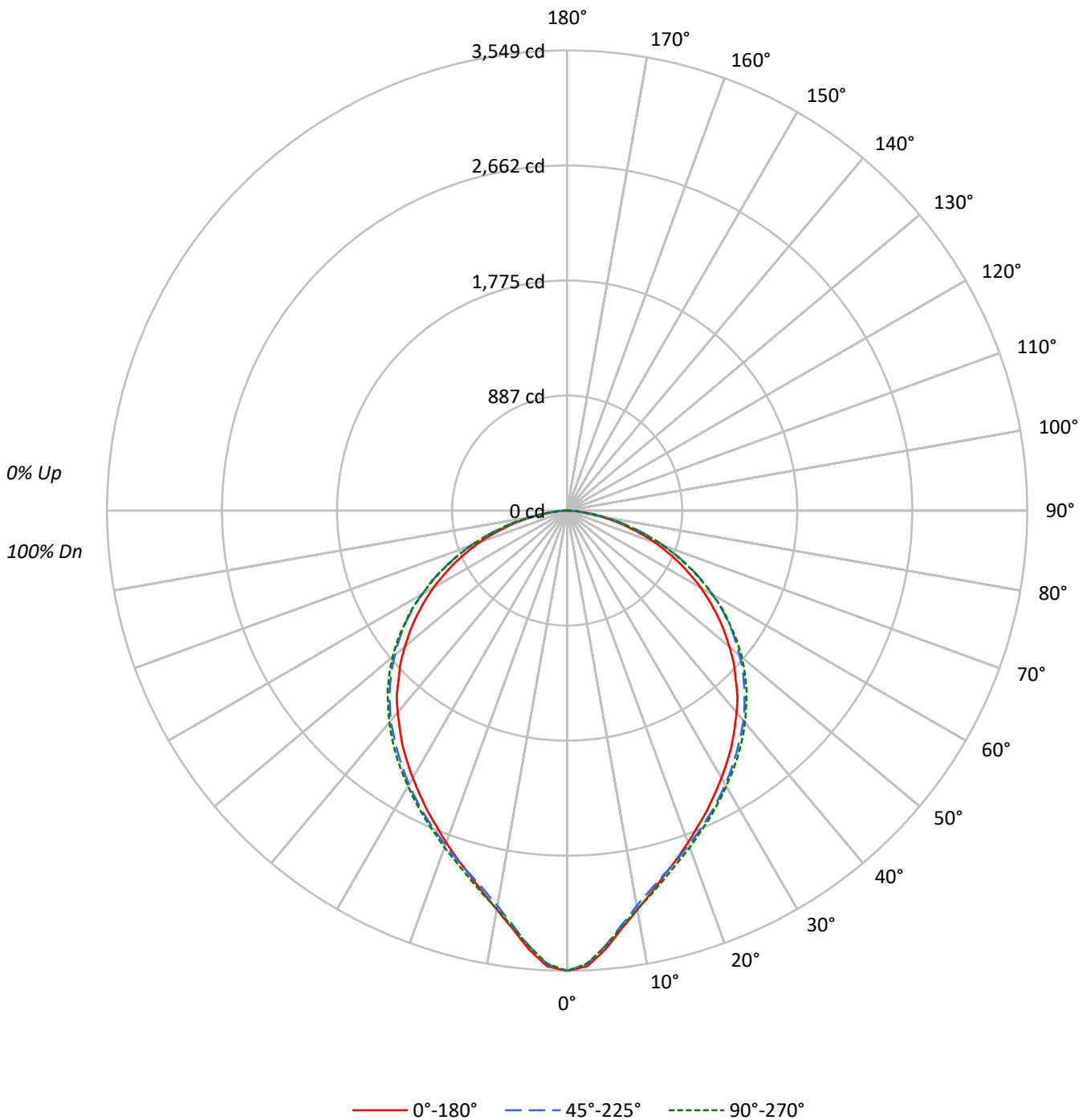
Lumens per Lamp: N/A  
Luminaire Lumens: 8243.9 lumens  
Efficiency: N/A  
Efficacy: 95.4 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

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°	9551	9551	9551
5°	9170	9105	9105
10°	8535	8457	8523
15°	8099	8084	8163
20°	7802	7858	7918
25°	7578	7702	7747
30°	7396	7578	7625
35°	7269	7481	7557
40°	7140	7430	7492
45°	6993	7357	7445
50°	6839	7266	7362
55°	6648	7160	7190
60°	6410	6964	6949
65°	6076	6697	6652
70°	5673	6245	6168
75°	5006	5532	5477
80°	4068	4508	4288
85°	2822	2875	2766



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	313.6	3.8
10°-20°	821.5	10.0
20°-30°	1194.6	14.5
30°-40°	1421.5	17.2
40°-50°	1476.0	17.9
50°-60°	1337.2	16.2
60°-70°	1009.0	12.2
70°-80°	549.8	6.7
80°-90°	120.8	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°	2329.6	28.3
0°-40°	3751.1	45.5
0°-60°	6564.3	79.6
0°-90°	8243.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8243.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3549	3549	3549	3549	3549	
5°	3395	3387	3371	3369	3371	315
15°	2907	2900	2902	2921	2930	821
25°	2552	2574	2594	2615	2609	1176
35°	2213	2239	2277	2312	2300	1383
45°	1838	1870	1933	1955	1956	1420
55°	1417	1451	1526	1537	1532	1265
65°	954	982	1052	1050	1045	943
75°	482	501	532	536	527	513
85°	91	92	93	92	90	115
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3549.1	3549.1	3549.1	3549.1	3549.1
2.5°	3518.1	3514.5	3503.0	3498.5	3497.6
5°	3394.8	3386.8	3370.8	3369.1	3370.8
7.5°	3247.6	3238.7	3222.8	3229.0	3237.0
10°	3123.4	3101.3	3095.0	3103.9	3119.0
12.5°	3012.6	2994.8	2989.5	3012.6	3023.3
15°	2907.0	2899.9	2901.7	2921.3	2930.1
17.5°	2815.7	2811.3	2822.8	2837.9	2842.3
20°	2724.4	2733.3	2743.9	2759.9	2765.1
22.5°	2634.8	2651.6	2669.4	2690.7	2683.6
25°	2552.3	2573.6	2594.0	2615.3	2609.1
27.5°	2464.5	2489.3	2517.7	2540.8	2531.9
30°	2380.2	2411.3	2438.8	2467.2	2453.9
32.5°	2296.9	2326.2	2359.0	2393.6	2378.5
35°	2212.7	2239.3	2277.4	2312.0	2300.5
37.5°	2119.6	2152.3	2195.8	2225.9	2218.0
40°	2032.6	2062.8	2115.1	2134.6	2132.8
42.5°	1944.8	1969.7	2024.6	2046.8	2043.3
45°	1837.5	1870.3	1933.3	1954.6	1956.4
47.5°	1742.6	1770.2	1837.5	1854.4	1857.9
50°	1633.6	1668.2	1735.6	1755.9	1758.6
52.5°	1526.2	1563.5	1632.7	1646.8	1649.5
55°	1417.1	1450.8	1526.2	1536.9	1532.5
57.5°	1302.8	1343.6	1412.8	1418.0	1422.5
60°	1191.0	1226.5	1293.9	1301.0	1291.2
62.5°	1069.5	1105.9	1175.1	1176.8	1168.8
65°	954.2	981.7	1051.8	1050.0	1044.7
67.5°	833.6	867.3	918.8	920.5	916.1
70°	721.0	744.0	793.7	794.6	784.0
72.5°	599.5	624.3	664.2	658.9	656.3
75°	481.5	501.1	532.1	535.7	526.8
77.5°	373.4	387.5	410.6	408.0	398.2
80°	262.5	274.0	290.9	287.4	276.7
82.5°	167.6	174.7	185.4	180.9	176.5
85°	91.4	92.2	93.1	92.2	89.6
87.5°	33.7	34.6	34.6	33.7	31.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)