

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: P488791

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-2HI-40-120-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: P488791  
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-12-4-INS-P12125-LD4-2HI-40-120-EDD  
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

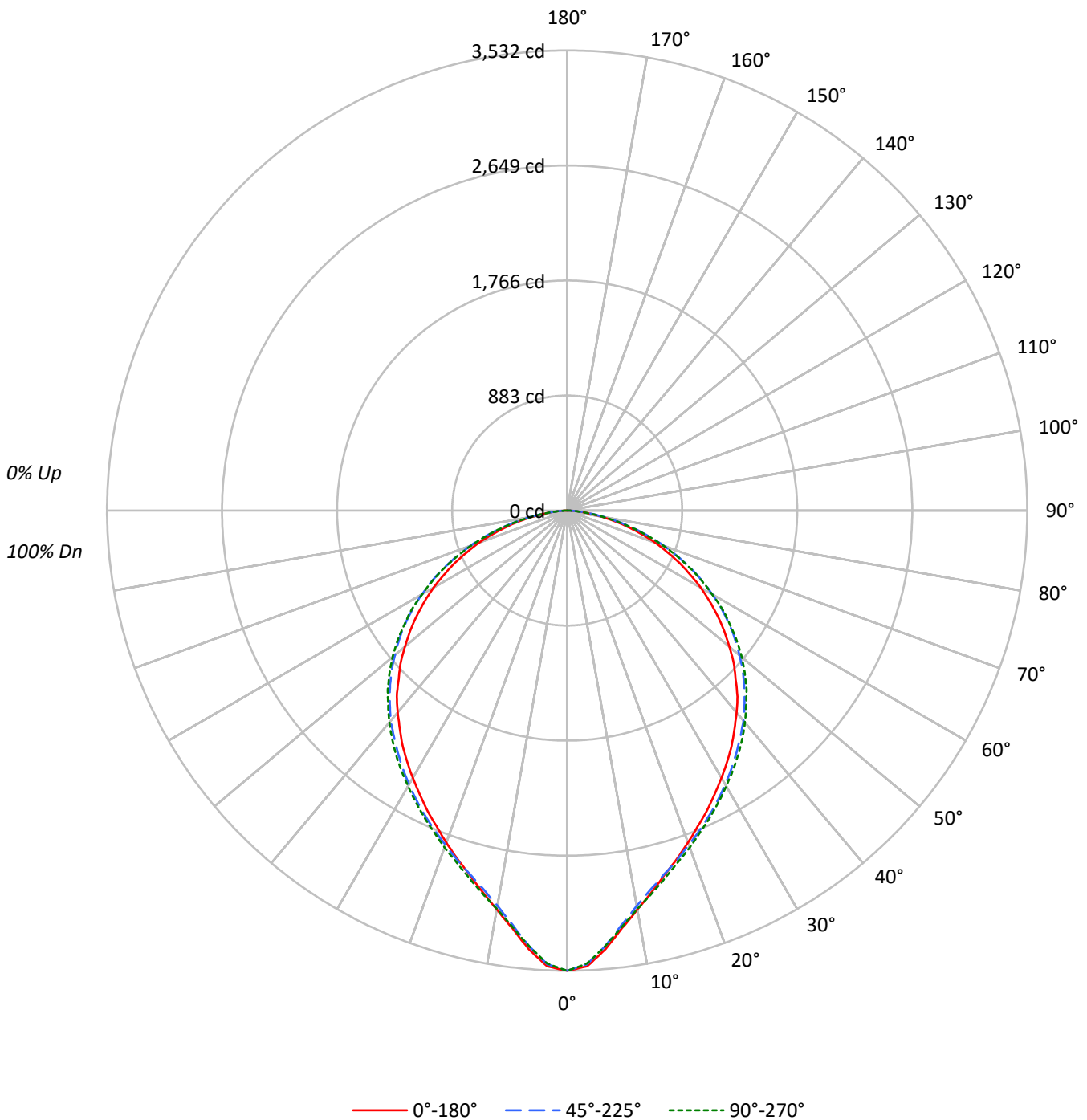
Lumens per Lamp: N/A  
Luminaire Lumens: 8204.3 lumens  
Efficiency: N/A  
Efficacy: 95.0 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

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	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					100			
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84					84			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70					70			
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59					59			
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51					51			
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44					44			
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38					38			
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34					34			
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30					30			
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27					27			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	9505	9505	9505
5°	9126	9062	9062
10°	8494	8417	8482
15°	8060	8045	8124
20°	7764	7820	7881
25°	7542	7665	7710
30°	7361	7542	7588
35°	7234	7446	7521
40°	7106	7394	7456
45°	6959	7322	7410
50°	6806	7231	7327
55°	6617	7126	7155
60°	6379	6930	6916
65°	6046	6665	6620
70°	5645	6215	6139
75°	4982	5506	5450
80°	4048	4486	4266
85°	2807	2862	2751



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	312.1	3.8
10°-20°	817.5	10.0
20°-30°	1188.8	14.5
30°-40°	1414.7	17.2
40°-50°	1468.9	17.9
50°-60°	1330.7	16.2
60°-70°	1004.2	12.2
70°-80°	547.1	6.7
80°-90°	120.2	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°	2318.4	28.3
0°-40°	3733.1	45.5
0°-60°	6532.8	79.6
0°-90°	8204.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8204.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3532	3532	3532	3532	3532	
5°	3378	3371	3355	3353	3355	314
15°	2893	2886	2888	2907	2916	817
25°	2540	2561	2582	2603	2597	1170
35°	2202	2228	2266	2301	2289	1377
45°	1829	1861	1924	1945	1947	1414
55°	1410	1444	1519	1530	1525	1259
65°	950	977	1047	1045	1040	939
75°	479	499	530	533	524	510
85°	91	92	93	92	89	115
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3532.1	3532.1	3532.1	3532.1	3532.1
2.5°	3501.2	3497.6	3486.2	3481.7	3480.8
5°	3378.5	3370.6	3354.7	3352.9	3354.7
7.5°	3232.0	3223.1	3207.3	3213.5	3221.4
10°	3108.4	3086.4	3080.2	3089.0	3104.0
12.5°	2998.1	2980.4	2975.1	2998.1	3008.7
15°	2893.0	2886.0	2887.8	2907.2	2916.0
17.5°	2802.2	2797.8	2809.3	2824.3	2828.7
20°	2711.3	2720.1	2730.7	2746.6	2751.9
22.5°	2622.1	2638.9	2656.6	2677.7	2670.7
25°	2540.1	2561.2	2581.6	2602.7	2596.6
27.5°	2452.7	2477.4	2505.6	2528.6	2519.7
30°	2368.8	2399.7	2427.1	2455.3	2442.1
32.5°	2285.9	2315.0	2347.6	2382.1	2367.1
35°	2202.0	2228.5	2266.5	2300.9	2289.4
37.5°	2109.4	2142.0	2185.2	2215.2	2207.4
40°	2022.9	2052.9	2104.9	2124.4	2122.6
42.5°	1935.5	1960.2	2014.9	2037.0	2033.5
45°	1828.7	1861.4	1924.0	1945.2	1947.0
47.5°	1734.3	1761.7	1828.7	1845.5	1849.0
50°	1625.7	1660.1	1727.2	1747.5	1750.2
52.5°	1518.9	1555.9	1624.8	1638.9	1641.6
55°	1410.3	1443.9	1518.9	1529.5	1525.1
57.5°	1296.5	1337.1	1406.0	1411.2	1415.7
60°	1185.3	1220.6	1287.7	1294.7	1285.0
62.5°	1064.4	1100.6	1169.4	1171.2	1163.2
65°	949.6	977.0	1046.7	1045.0	1039.6
67.5°	829.6	863.1	914.4	916.1	911.7
70°	717.5	740.5	789.9	790.8	780.2
72.5°	596.6	621.3	661.0	655.8	653.1
75°	479.2	498.7	529.6	533.1	524.2
77.5°	371.6	385.7	408.6	406.0	396.3
80°	261.2	272.7	289.5	286.0	275.3
82.5°	166.8	173.9	184.5	180.1	175.6
85°	90.9	91.8	92.7	91.8	89.1
87.5°	33.5	34.4	34.4	33.5	30.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)