

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: P488499

Luminaire Tested: **CLM-12-2-INS-P12125-LD4-2HI-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: P488499  
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-12-2-INS-P12125-LD4-2HI-30-120-EDD  
Description: 1X2 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

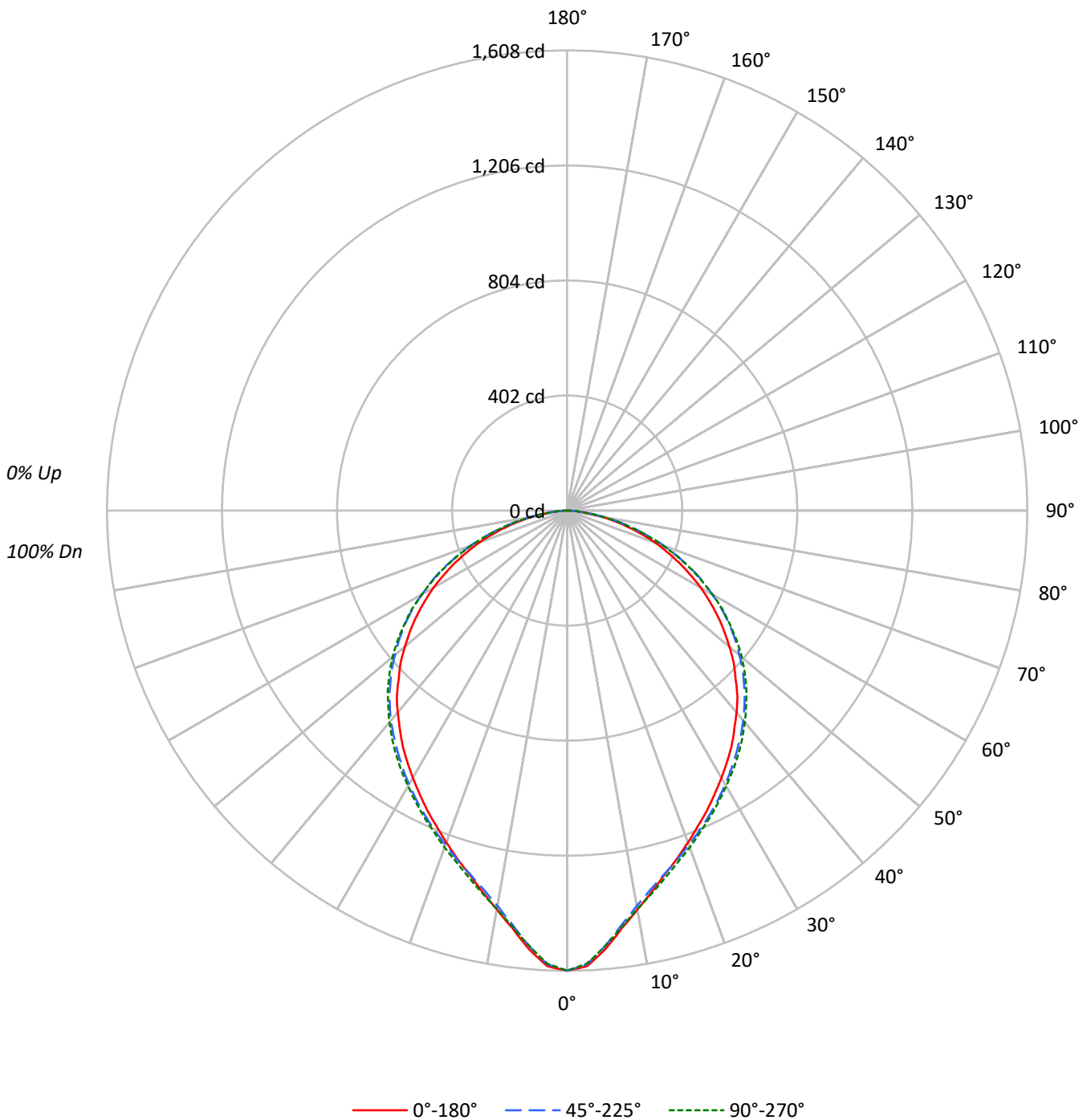
Lumens per Lamp: N/A  
Luminaire Lumens: 3734.4 lumens  
Efficiency: N/A  
Efficacy: 86.4 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 43.2  
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°	8653	8653	8653
5°	8308	8250	8250
10°	7732	7662	7721
15°	7337	7324	7395
20°	7068	7119	7174
25°	6866	6978	7019
30°	6701	6866	6908
35°	6585	6778	6847
40°	6469	6731	6787
45°	6336	6666	6745
50°	6196	6583	6670
55°	6023	6488	6514
60°	5807	6309	6296
65°	5504	6067	6026
70°	5139	5657	5588
75°	4535	5014	4962
80°	3685	4085	3883
85°	2556	2606	2507



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.1	3.8
10°-20°	372.1	10.0
20°-30°	541.1	14.5
30°-40°	643.9	17.2
40°-50°	668.6	17.9
50°-60°	605.7	16.2
60°-70°	457.1	12.2
70°-80°	249.1	6.7
80°-90°	54.7	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°	1055.3	28.3
0°-40°	1699.2	45.5
0°-60°	2973.6	79.6
0°-90°	3734.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3734.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1608	1608	1608	1608	1608	
5°	1538	1534	1527	1526	1527	143
15°	1317	1314	1314	1323	1327	372
25°	1156	1166	1175	1185	1182	533
35°	1002	1014	1032	1047	1042	627
45°	832	847	876	885	886	643
55°	642	657	691	696	694	573
65°	432	445	476	476	473	427
75°	218	227	241	243	239	232
85°	41	42	42	42	41	52
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1607.7	1607.7	1607.7	1607.7	1607.7
2.5°	1593.6	1592.0	1586.8	1584.8	1584.4
5°	1537.8	1534.2	1527.0	1526.2	1527.0
7.5°	1471.1	1467.1	1459.9	1462.7	1466.3
10°	1414.9	1404.8	1402.0	1406.0	1412.9
12.5°	1364.7	1356.6	1354.2	1364.7	1369.5
15°	1316.8	1313.6	1314.5	1323.3	1327.3
17.5°	1275.5	1273.5	1278.7	1285.5	1287.5
20°	1234.1	1238.1	1243.0	1250.2	1252.6
22.5°	1193.5	1201.2	1209.2	1218.8	1215.6
25°	1156.2	1165.8	1175.1	1184.7	1181.9
27.5°	1116.4	1127.6	1140.5	1151.0	1146.9
30°	1078.2	1092.3	1104.8	1117.6	1111.6
32.5°	1040.5	1053.7	1068.6	1084.3	1077.4
35°	1002.3	1014.4	1031.6	1047.3	1042.1
37.5°	960.1	975.0	994.7	1008.3	1004.7
40°	920.8	934.4	958.1	967.0	966.1
42.5°	881.0	892.3	917.1	927.2	925.6
45°	832.4	847.2	875.8	885.4	886.2
47.5°	789.4	801.9	832.4	840.0	841.6
50°	740.0	755.7	786.2	795.4	796.6
52.5°	691.4	708.2	739.6	746.0	747.2
55°	641.9	657.2	691.4	696.2	694.2
57.5°	590.1	608.6	640.0	642.4	644.4
60°	539.5	555.6	586.1	589.3	584.9
62.5°	484.5	501.0	532.3	533.1	529.5
65°	432.2	444.7	476.4	475.6	473.2
67.5°	377.6	392.9	416.2	417.0	415.0
70°	326.6	337.0	359.5	360.0	355.1
72.5°	271.6	282.8	300.9	298.5	297.3
75°	218.1	227.0	241.1	242.7	238.6
77.5°	169.1	175.6	186.0	184.8	180.4
80°	118.9	124.1	131.8	130.2	125.3
82.5°	75.9	79.2	84.0	82.0	79.9
85°	41.4	41.8	42.2	41.8	40.6
87.5°	15.3	15.7	15.7	15.3	14.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)