

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: P488481

Luminaire Tested: **CLM-12-2-INS-P12125-LD4-1LO-50-120-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: P488481  
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-LD4-1LO-50-120-EDD  
Description: 1X2 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

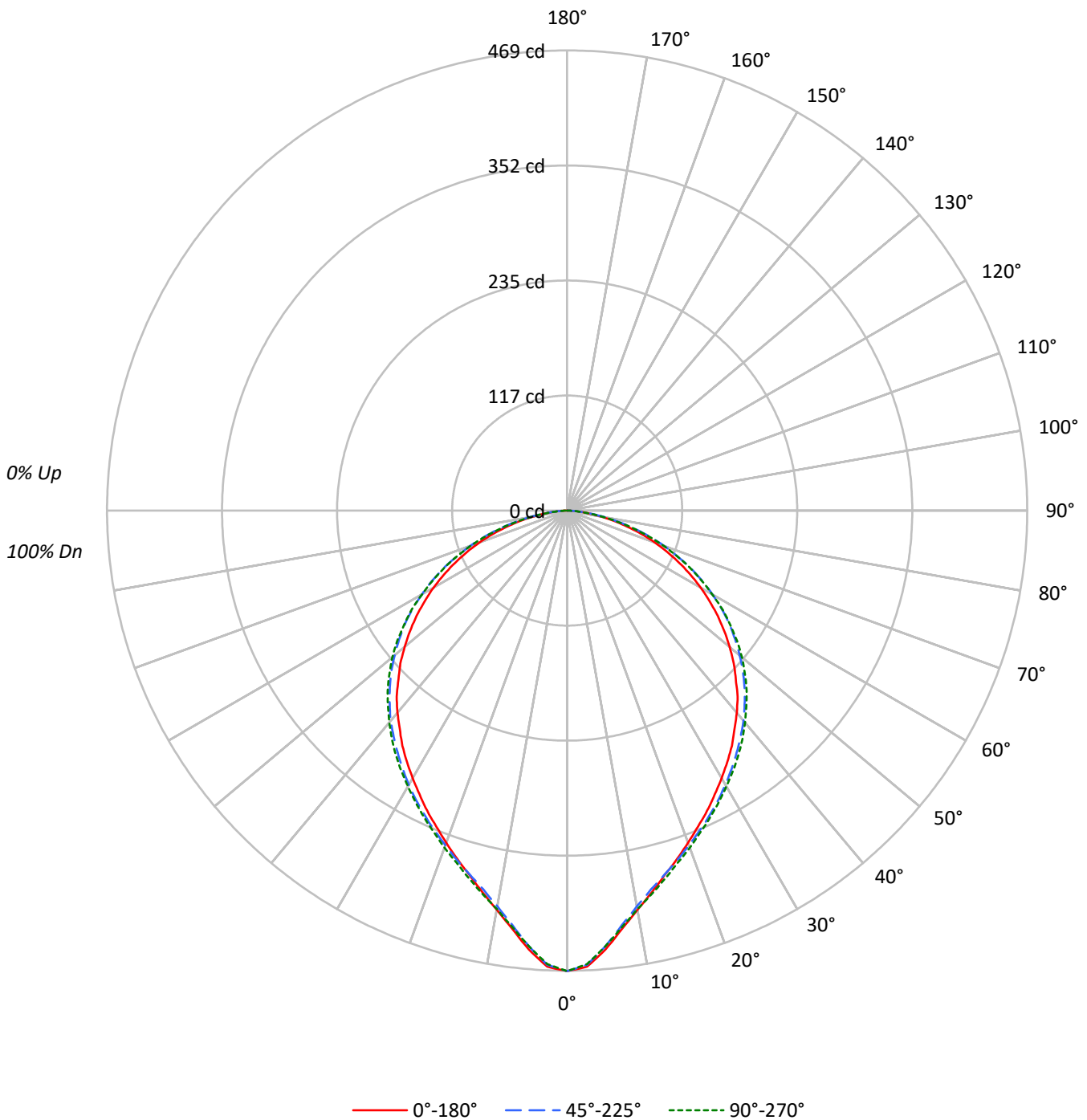
Lumens per Lamp: N/A  
Luminaire Lumens: 1090.4 lumens  
Efficiency: N/A  
Efficacy: 93.2 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 11.7  
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°	2526	2526	2526
5°	2426	2409	2409
10°	2258	2237	2254
15°	2142	2138	2160
20°	2064	2078	2094
25°	2005	2037	2049
30°	1956	2005	2017
35°	1923	1979	1999
40°	1889	1966	1982
45°	1850	1946	1970
50°	1809	1922	1948
55°	1758	1894	1902
60°	1695	1842	1838
65°	1607	1771	1760
70°	1501	1652	1632
75°	1325	1464	1449
80°	1075	1193	1134
85°	747	760	729



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.5	3.8
10°-20°	108.7	10.0
20°-30°	158.0	14.5
30°-40°	188.0	17.2
40°-50°	195.2	17.9
50°-60°	176.9	16.2
60°-70°	133.5	12.2
70°-80°	72.7	6.7
80°-90°	16.0	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°	308.1	28.3
0°-40°	496.1	45.5
0°-60°	868.2	79.6
0°-90°	1090.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1090.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	469	469	469	469	469	
5°	449	448	446	446	446	42
15°	384	384	384	386	388	109
25°	338	340	343	346	345	156
35°	293	296	301	306	304	183
45°	243	247	256	258	259	188
55°	187	192	202	203	203	167
65°	126	130	139	139	138	125
75°	64	66	70	71	70	68
85°	12	12	12	12	12	15
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	469.4	469.4	469.4	469.4	469.4
2.5°	465.3	464.9	463.3	462.7	462.6
5°	449.0	448.0	445.9	445.6	445.9
7.5°	429.6	428.4	426.3	427.1	428.1
10°	413.1	410.2	409.4	410.5	412.5
12.5°	398.5	396.1	395.4	398.5	399.9
15°	384.5	383.6	383.8	386.4	387.6
17.5°	372.4	371.8	373.4	375.4	375.9
20°	360.3	361.5	362.9	365.0	365.7
22.5°	348.5	350.7	353.1	355.9	354.9
25°	337.6	340.4	343.1	345.9	345.1
27.5°	326.0	329.3	333.0	336.1	334.9
30°	314.8	318.9	322.6	326.3	324.6
32.5°	303.8	307.7	312.0	316.6	314.6
35°	292.7	296.2	301.2	305.8	304.3
37.5°	280.3	284.7	290.4	294.4	293.4
40°	268.9	272.8	279.8	282.3	282.1
42.5°	257.2	260.5	267.8	270.7	270.3
45°	243.0	247.4	255.7	258.5	258.8
47.5°	230.5	234.1	243.0	245.3	245.7
50°	216.1	220.6	229.6	232.2	232.6
52.5°	201.9	206.8	215.9	217.8	218.2
55°	187.4	191.9	201.9	203.3	202.7
57.5°	172.3	177.7	186.9	187.6	188.1
60°	157.5	162.2	171.1	172.1	170.8
62.5°	141.5	146.3	155.4	155.7	154.6
65°	126.2	129.8	139.1	138.9	138.2
67.5°	110.3	114.7	121.5	121.8	121.2
70°	95.4	98.4	105.0	105.1	103.7
72.5°	79.3	82.6	87.9	87.2	86.8
75°	63.7	66.3	70.4	70.9	69.7
77.5°	49.4	51.3	54.3	54.0	52.7
80°	34.7	36.2	38.5	38.0	36.6
82.5°	22.2	23.1	24.5	23.9	23.3
85°	12.1	12.2	12.3	12.2	11.8
87.5°	4.5	4.6	4.6	4.5	4.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)