

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: P488478

Luminaire Tested: **CLM-12-2-INS-P12125-LD4-1LO-40-120-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: P488478  
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-40-120-EDD-90  
Description: 1X2 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

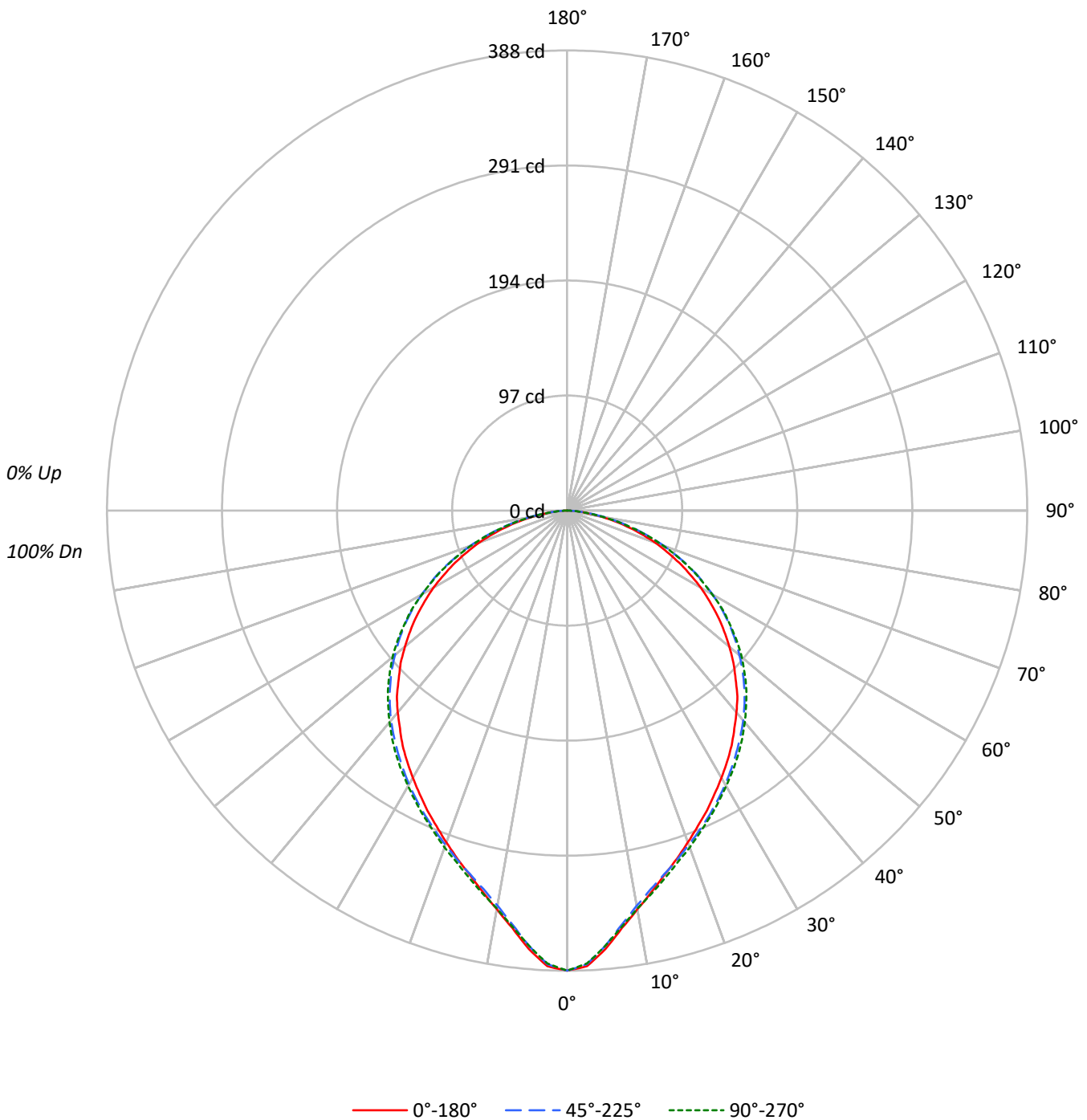
Lumens per Lamp: N/A  
Luminaire Lumens: 900.9 lumens  
Efficiency: N/A  
Efficacy: 77.0 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.23  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

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	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°	2088	2088	2088
5°	2004	1990	1990
10°	1865	1848	1862
15°	1770	1767	1784
20°	1705	1718	1731
25°	1656	1684	1693
30°	1616	1656	1667
35°	1589	1635	1652
40°	1560	1624	1638
45°	1528	1608	1627
50°	1495	1588	1609
55°	1453	1565	1572
60°	1401	1522	1519
65°	1328	1463	1454
70°	1240	1364	1349
75°	1094	1210	1198
80°	890	986	936
85°	618	630	605



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	34.3	3.8
10°-20°	89.8	10.0
20°-30°	130.5	14.5
30°-40°	155.3	17.2
40°-50°	161.3	17.9
50°-60°	146.1	16.2
60°-70°	110.3	12.2
70°-80°	60.1	6.7
80°-90°	13.2	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°	254.6	28.3
0°-40°	409.9	45.5
0°-60°	717.4	79.6
0°-90°	900.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	900.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	388	388	388	388	388	
5°	371	370	368	368	368	34
15°	318	317	317	319	320	90
25°	279	281	284	286	285	129
35°	242	245	249	253	251	151
45°	201	204	211	214	214	155
55°	155	158	167	168	168	138
65°	104	107	115	115	114	103
75°	53	55	58	58	58	56
85°	10	10	10	10	10	13
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	387.9	387.9	387.9	387.9	387.9
2.5°	384.5	384.1	382.8	382.3	382.2
5°	371.0	370.1	368.4	368.2	368.4
7.5°	354.9	353.9	352.2	352.9	353.7
10°	341.3	338.9	338.2	339.2	340.8
12.5°	329.2	327.3	326.7	329.2	330.4
15°	317.7	316.9	317.1	319.2	320.2
17.5°	307.7	307.2	308.5	310.1	310.6
20°	297.7	298.7	299.9	301.6	302.2
22.5°	287.9	289.8	291.7	294.0	293.3
25°	278.9	281.2	283.5	285.8	285.1
27.5°	269.3	272.0	275.1	277.7	276.7
30°	260.1	263.5	266.5	269.6	268.2
32.5°	251.0	254.2	257.8	261.6	259.9
35°	241.8	244.7	248.9	252.7	251.4
37.5°	231.6	235.2	240.0	243.3	242.4
40°	222.1	225.4	231.1	233.3	233.1
42.5°	212.5	215.2	221.3	223.7	223.3
45°	200.8	204.4	211.3	213.6	213.8
47.5°	190.4	193.4	200.8	202.6	203.0
50°	178.5	182.3	189.7	191.9	192.2
52.5°	166.8	170.9	178.4	180.0	180.3
55°	154.9	158.5	166.8	168.0	167.5
57.5°	142.4	146.8	154.4	155.0	155.5
60°	130.2	134.0	141.4	142.2	141.1
62.5°	116.9	120.9	128.4	128.6	127.7
65°	104.3	107.3	114.9	114.7	114.2
67.5°	91.1	94.8	100.4	100.6	100.1
70°	78.8	81.3	86.7	86.8	85.7
72.5°	65.5	68.2	72.6	72.0	71.7
75°	52.6	54.8	58.2	58.5	57.6
77.5°	40.8	42.4	44.9	44.6	43.5
80°	28.7	29.9	31.8	31.4	30.2
82.5°	18.3	19.1	20.3	19.8	19.3
85°	10.0	10.1	10.2	10.1	9.8
87.5°	3.7	3.8	3.8	3.7	3.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)