

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: P488473

Luminaire Tested: **CLM-12-2-INS-P12125-LD4-1LO-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: P488473  
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-27-120-EDD  
Description: 1X2 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

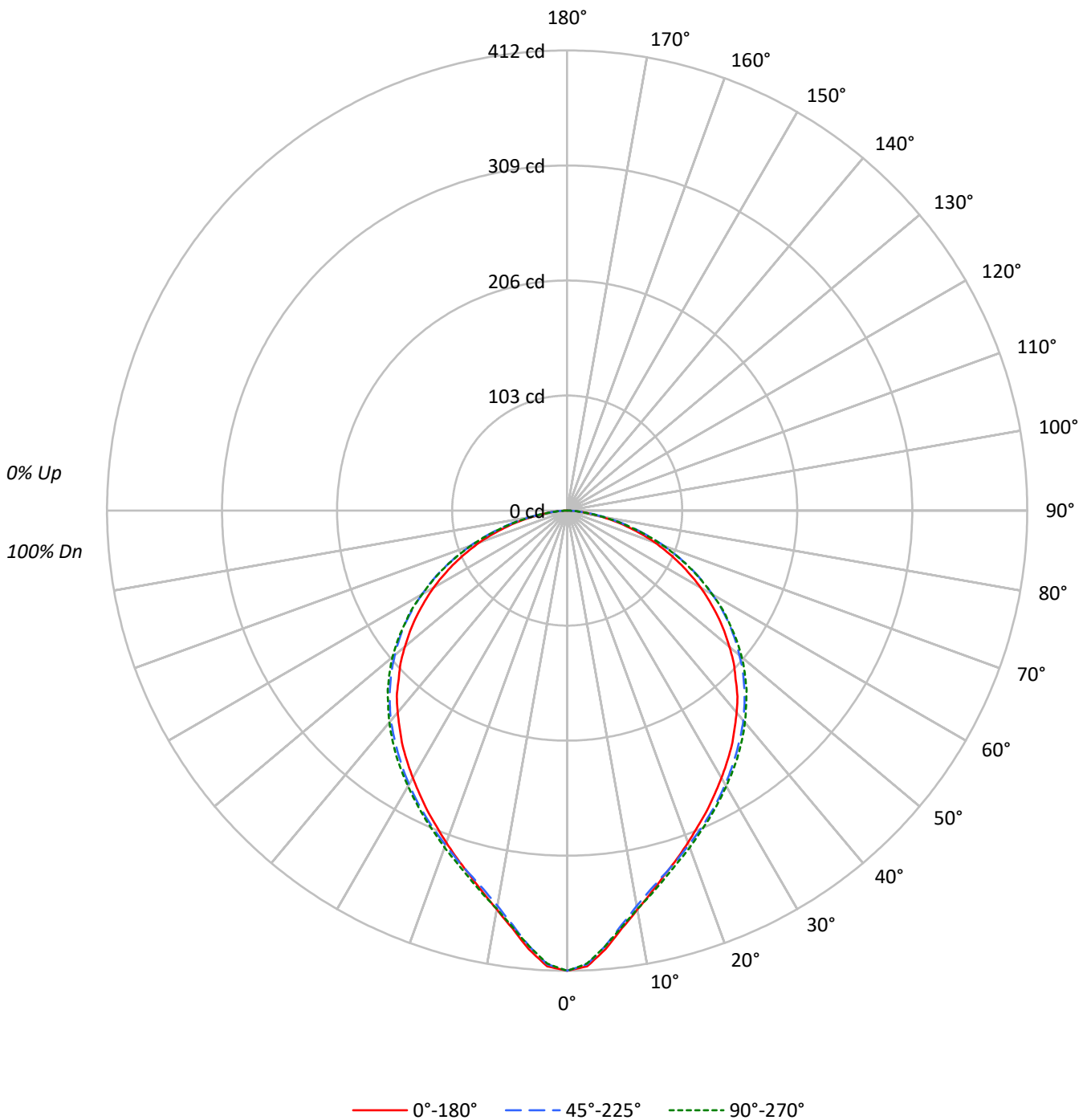
Lumens per Lamp: N/A  
Luminaire Lumens: 957.0 lumens  
Efficiency: N/A  
Efficacy: 81.8 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.23  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

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°	2217	2217	2217
5°	2129	2114	2114
10°	1982	1964	1979
15°	1880	1877	1895
20°	1812	1824	1838
25°	1760	1788	1799
30°	1717	1759	1771
35°	1688	1737	1755
40°	1658	1725	1740
45°	1623	1708	1729
50°	1587	1687	1710
55°	1544	1663	1669
60°	1489	1617	1614
65°	1411	1555	1545
70°	1317	1449	1432
75°	1162	1285	1273
80°	945	1048	995
85°	655	667	642



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	36.4	3.8
10°-20°	95.4	10.0
20°-30°	138.7	14.5
30°-40°	165.0	17.2
40°-50°	171.3	17.9
50°-60°	155.2	16.2
60°-70°	117.1	12.2
70°-80°	63.8	6.7
80°-90°	14.0	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°	270.4	28.3
0°-40°	435.5	45.5
0°-60°	762.0	79.6
0°-90°	957.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	957.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	412	412	412	412	412	
5°	394	393	391	391	391	37
15°	338	337	337	339	340	95
25°	296	299	301	304	303	137
35°	257	260	264	268	267	161
45°	213	217	224	227	227	165
55°	164	168	177	178	178	147
65°	111	114	122	122	121	110
75°	56	58	62	62	61	60
85°	11	11	11	11	10	13
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	412.0	412.0	412.0	412.0	412.0
2.5°	408.4	408.0	406.6	406.1	406.0
5°	394.1	393.2	391.3	391.1	391.3
7.5°	377.0	376.0	374.1	374.8	375.8
10°	362.6	360.0	359.3	360.3	362.1
12.5°	349.7	347.7	347.0	349.7	351.0
15°	337.5	336.6	336.9	339.1	340.1
17.5°	326.9	326.3	327.7	329.4	330.0
20°	316.3	317.3	318.5	320.4	321.0
22.5°	305.9	307.8	309.9	312.3	311.5
25°	296.3	298.8	301.1	303.6	302.9
27.5°	286.1	289.0	292.3	295.0	293.9
30°	276.3	279.9	283.1	286.4	284.9
32.5°	266.6	270.0	273.8	277.9	276.1
35°	256.9	259.9	264.4	268.4	267.1
37.5°	246.1	249.9	254.9	258.4	257.5
40°	236.0	239.5	245.5	247.8	247.6
42.5°	225.8	228.7	235.0	237.6	237.2
45°	213.3	217.1	224.4	226.9	227.1
47.5°	202.3	205.5	213.3	215.3	215.7
50°	189.6	193.6	201.5	203.8	204.2
52.5°	177.2	181.5	189.5	191.2	191.5
55°	164.5	168.4	177.2	178.4	177.9
57.5°	151.2	156.0	164.0	164.6	165.1
60°	138.3	142.4	150.2	151.0	149.9
62.5°	124.2	128.4	136.4	136.6	135.7
65°	110.8	114.0	122.1	121.9	121.3
67.5°	96.8	100.7	106.7	106.9	106.4
70°	83.7	86.4	92.1	92.2	91.0
72.5°	69.6	72.5	77.1	76.5	76.2
75°	55.9	58.2	61.8	62.2	61.2
77.5°	43.3	45.0	47.7	47.4	46.2
80°	30.5	31.8	33.8	33.4	32.1
82.5°	19.5	20.3	21.5	21.0	20.5
85°	10.6	10.7	10.8	10.7	10.4
87.5°	3.9	4.0	4.0	3.9	3.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)