

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: P488484

Luminaire Tested: **CLM-12-2-INS-P12125-LD4-1STD-27-120-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: P488484  
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-LD4-1STD-27-120-EDD-90  
Description: 1X2 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

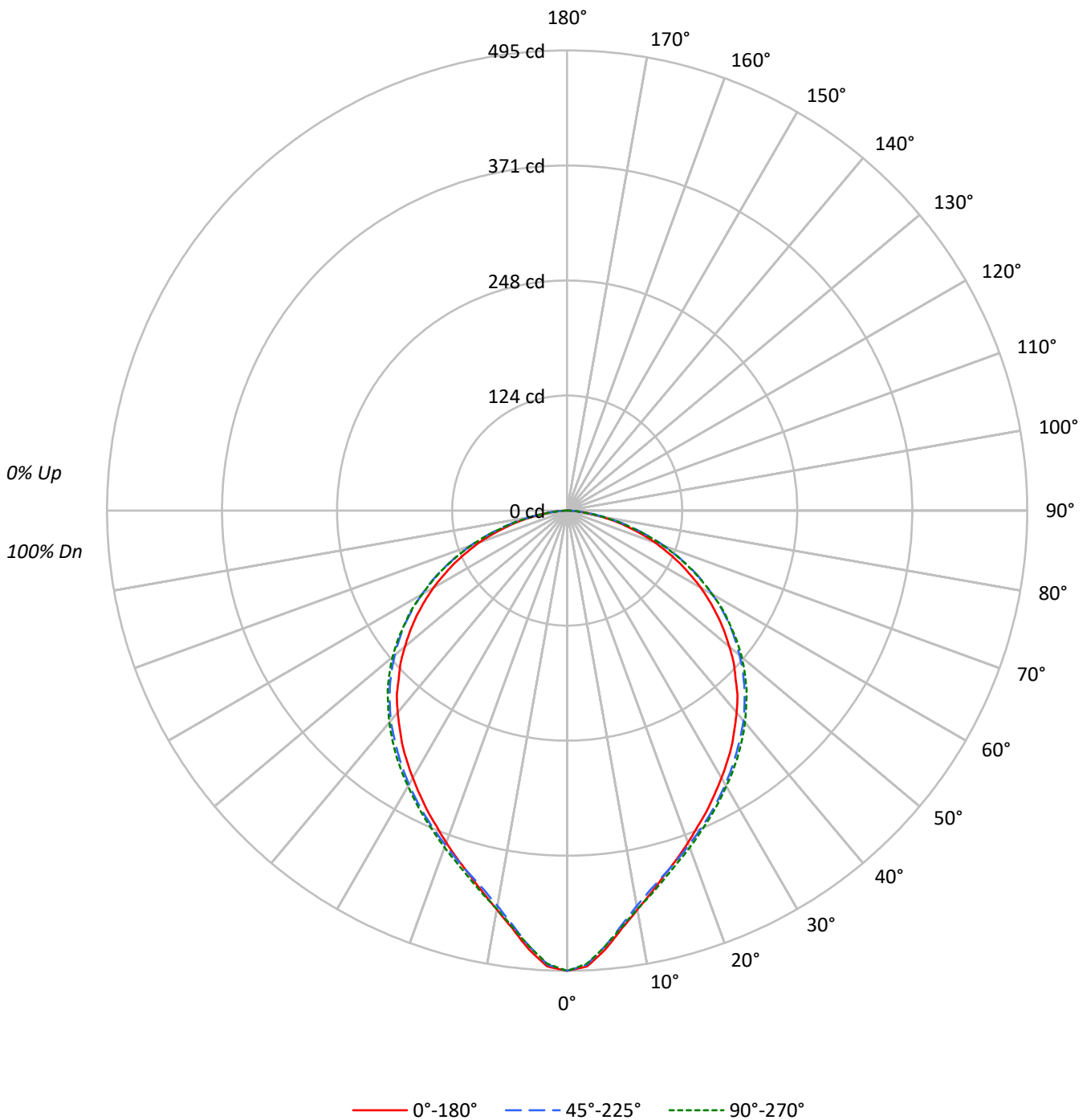
Lumens per Lamp: N/A  
Luminaire Lumens: 1150.0 lumens  
Efficiency: N/A  
Efficacy: 69.3 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 16.6  
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°	2665	2665	2665
5°	2559	2540	2540
10°	2381	2359	2378
15°	2259	2255	2277
20°	2176	2192	2209
25°	2114	2149	2162
30°	2063	2114	2127
35°	2028	2087	2108
40°	1992	2073	2090
45°	1951	2053	2077
50°	1908	2027	2054
55°	1855	1998	2006
60°	1788	1943	1939
65°	1695	1868	1855
70°	1583	1742	1721
75°	1397	1543	1528
80°	1134	1258	1196
85°	784	803	772



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	43.7	3.8
10°-20°	114.6	10.0
20°-30°	166.6	14.5
30°-40°	198.3	17.2
40°-50°	205.9	17.9
50°-60°	186.5	16.2
60°-70°	140.8	12.2
70°-80°	76.7	6.7
80°-90°	16.9	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°	325.0	28.3
0°-40°	523.3	45.5
0°-60°	915.7	79.6
0°-90°	1150.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1150.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	495	495	495	495	495	
5°	474	472	470	470	470	44
15°	406	404	405	408	409	114
25°	356	359	362	365	364	164
35°	309	312	318	322	321	193
45°	256	261	270	273	273	198
55°	198	202	213	214	214	177
65°	133	137	147	146	146	132
75°	67	70	74	75	74	72
85°	13	13	13	13	12	16
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	495.1	495.1	495.1	495.1	495.1
2.5°	490.8	490.3	488.7	488.0	487.9
5°	473.6	472.5	470.2	470.0	470.2
7.5°	453.0	451.8	449.6	450.4	451.5
10°	435.7	432.6	431.7	433.0	435.1
12.5°	420.2	417.8	417.0	420.2	421.7
15°	405.5	404.5	404.8	407.5	408.7
17.5°	392.8	392.2	393.8	395.9	396.5
20°	380.0	381.3	382.8	385.0	385.7
22.5°	367.5	369.9	372.4	375.3	374.4
25°	356.0	359.0	361.9	364.8	364.0
27.5°	343.8	347.3	351.2	354.4	353.2
30°	332.0	336.4	340.2	344.2	342.3
32.5°	320.4	324.5	329.1	333.9	331.8
35°	308.7	312.4	317.7	322.5	320.9
37.5°	295.7	300.2	306.3	310.5	309.4
40°	283.5	287.8	295.1	297.8	297.5
42.5°	271.3	274.8	282.4	285.5	285.0
45°	256.3	260.9	269.7	272.7	272.9
47.5°	243.1	246.9	256.3	258.7	259.2
50°	227.9	232.7	242.1	244.9	245.3
52.5°	212.9	218.1	227.8	229.7	230.1
55°	197.7	202.4	212.9	214.4	213.8
57.5°	181.7	187.4	197.1	197.8	198.4
60°	166.1	171.1	180.5	181.5	180.1
62.5°	149.2	154.3	163.9	164.2	163.0
65°	133.1	136.9	146.7	146.5	145.7
67.5°	116.3	121.0	128.2	128.4	127.8
70°	100.6	103.8	110.7	110.8	109.4
72.5°	83.6	87.1	92.7	91.9	91.6
75°	67.2	69.9	74.2	74.7	73.5
77.5°	52.1	54.1	57.3	56.9	55.5
80°	36.6	38.2	40.6	40.1	38.6
82.5°	23.4	24.4	25.9	25.2	24.6
85°	12.7	12.9	13.0	12.9	12.5
87.5°	4.7	4.8	4.8	4.7	4.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)