

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P488475

Luminaire Tested: **CLM-12-2-INS-P12125-LD4-1LO-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.

Report Generated By E9911574 / USPTCWHP6081592



Test Information

Test Method: LM-79-08
Report Number: P488475
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-30-120-EDD
Description: 1X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

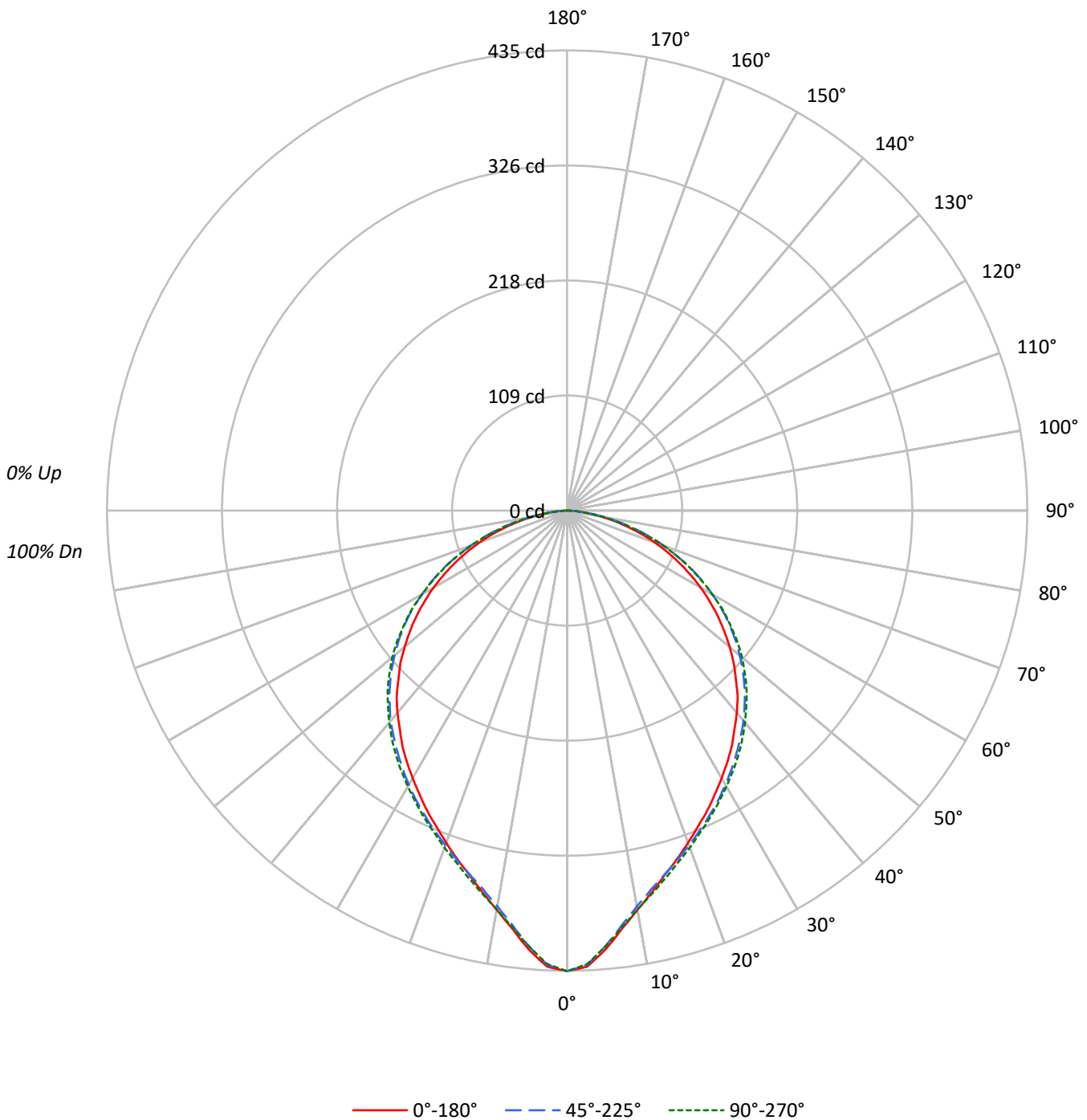
Lumens per Lamp: N/A
Luminaire Lumens: 1011.4 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
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°	2343	2343	2343
5°	2250	2234	2234
10°	2094	2075	2091
15°	1987	1984	2003
20°	1914	1928	1943
25°	1859	1890	1901
30°	1815	1859	1871
35°	1784	1836	1854
40°	1752	1823	1839
45°	1716	1805	1827
50°	1678	1783	1807
55°	1632	1757	1764
60°	1573	1708	1705
65°	1491	1643	1633
70°	1393	1533	1514
75°	1229	1358	1343
80°	998	1106	1051
85°	692	704	679



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.5	3.8
10°-20°	100.8	10.0
20°-30°	146.5	14.5
30°-40°	174.4	17.2
40°-50°	181.1	17.9
50°-60°	164.0	16.2
60°-70°	123.8	12.2
70°-80°	67.5	6.7
80°-90°	14.8	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
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0°-30°	285.8	28.3
0°-40°	460.2	45.5
0°-60°	805.3	79.6
0°-90°	1011.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1011.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	435	435	435	435	435	
5°	416	416	414	413	414	39
15°	357	356	356	358	360	101
25°	313	316	318	321	320	144
35°	272	275	279	284	282	170
45°	225	230	237	240	240	174
55°	174	178	187	189	188	155
65°	117	120	129	129	128	116
75°	59	62	65	66	65	63
85°	11	11	11	11	11	14
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	435.4	435.4	435.4	435.4	435.4
2.5°	431.6	431.2	429.8	429.2	429.1
5°	416.5	415.5	413.6	413.3	413.6
7.5°	398.4	397.3	395.4	396.1	397.1
10°	383.2	380.5	379.7	380.8	382.7
12.5°	369.6	367.4	366.8	369.6	370.9
15°	356.6	355.8	356.0	358.4	359.5
17.5°	345.4	344.9	346.3	348.2	348.7
20°	334.2	335.3	336.6	338.6	339.2
22.5°	323.2	325.3	327.5	330.1	329.2
25°	313.1	315.7	318.2	320.9	320.1
27.5°	302.4	305.4	308.9	311.7	310.6
30°	292.0	295.8	299.2	302.7	301.1
32.5°	281.8	285.4	289.4	293.7	291.8
35°	271.5	274.7	279.4	283.6	282.2
37.5°	260.0	264.1	269.4	273.1	272.1
40°	249.4	253.1	259.5	261.9	261.7
42.5°	238.6	241.7	248.4	251.1	250.7
45°	225.4	229.5	237.2	239.8	240.0
47.5°	213.8	217.2	225.4	227.5	227.9
50°	200.4	204.7	212.9	215.4	215.8
52.5°	187.2	191.8	200.3	202.0	202.4
55°	173.9	178.0	187.2	188.6	188.0
57.5°	159.8	164.8	173.3	174.0	174.5
60°	146.1	150.5	158.7	159.6	158.4
62.5°	131.2	135.7	144.2	144.4	143.4
65°	117.1	120.4	129.0	128.8	128.2
67.5°	102.3	106.4	112.7	112.9	112.4
70°	88.5	91.3	97.4	97.5	96.2
72.5°	73.6	76.6	81.5	80.8	80.5
75°	59.1	61.5	65.3	65.7	64.6
77.5°	45.8	47.5	50.4	50.1	48.9
80°	32.2	33.6	35.7	35.3	33.9
82.5°	20.6	21.4	22.7	22.2	21.7
85°	11.2	11.3	11.4	11.3	11.0
87.5°	4.1	4.2	4.2	4.1	3.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)