

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: P488458

Luminaire Tested: **CLM-12-2-INS-P12125-LD4-1HI-20-120-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: P488458  
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-LD4-1HI-20-120-EDD-90  
Description: 1X2 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

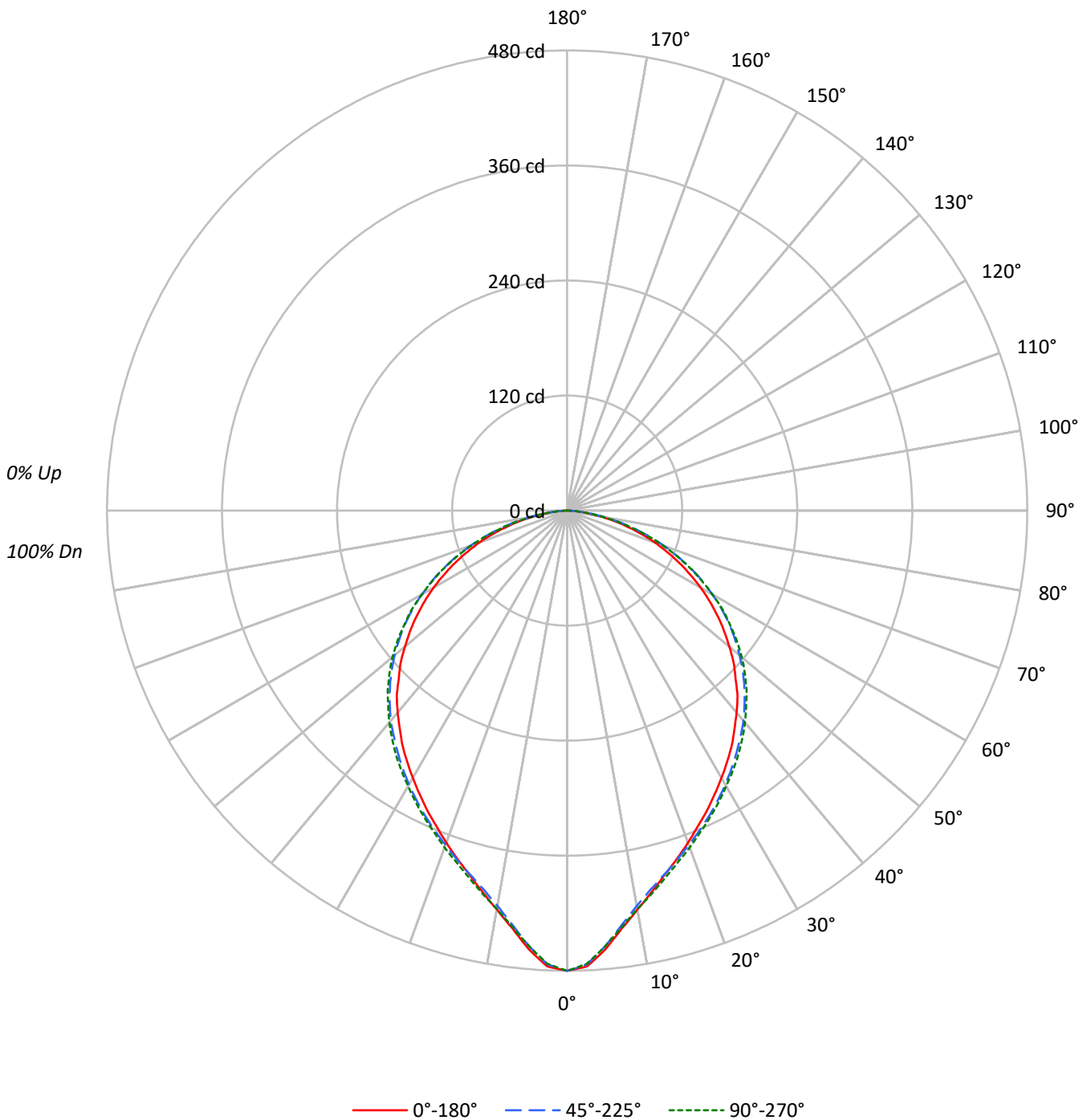
Lumens per Lamp: N/A  
Luminaire Lumens: 1115.1 lumens  
Efficiency: N/A  
Efficacy: 51.6 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 21.6  
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°	2584	2584	2584
5°	2481	2464	2464
10°	2309	2288	2306
15°	2191	2187	2208
20°	2111	2125	2142
25°	2050	2084	2096
30°	2001	2050	2063
35°	1966	2024	2045
40°	1931	2010	2027
45°	1892	1990	2014
50°	1850	1966	1992
55°	1799	1937	1945
60°	1734	1884	1880
65°	1644	1812	1799
70°	1534	1690	1668
75°	1354	1497	1483
80°	1100	1218	1159
85°	766	778	747



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.4	3.8
10°-20°	111.1	10.0
20°-30°	161.6	14.5
30°-40°	192.3	17.2
40°-50°	199.7	17.9
50°-60°	180.9	16.2
60°-70°	136.5	12.2
70°-80°	74.4	6.7
80°-90°	16.4	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°	315.1	28.3
0°-40°	507.4	45.5
0°-60°	887.9	79.6
0°-90°	1115.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1115.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	480	480	480	480	480	
5°	459	458	456	456	456	43
15°	393	392	392	395	396	111
25°	345	348	351	354	353	159
35°	299	303	308	313	311	187
45°	249	253	262	264	265	192
55°	192	196	206	208	207	171
65°	129	133	142	142	141	128
75°	65	68	72	72	71	69
85°	12	12	13	12	12	16
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	480.1	480.1	480.1	480.1	480.1
2.5°	475.9	475.4	473.8	473.2	473.1
5°	459.2	458.1	456.0	455.7	456.0
7.5°	439.3	438.1	435.9	436.8	437.8
10°	422.5	419.5	418.6	419.8	421.9
12.5°	407.5	405.1	404.4	407.5	408.9
15°	393.2	392.3	392.5	395.1	396.3
17.5°	380.9	380.3	381.8	383.9	384.5
20°	368.5	369.7	371.1	373.3	374.0
22.5°	356.4	358.7	361.1	363.9	363.0
25°	345.2	348.1	350.9	353.8	352.9
27.5°	333.4	336.7	340.6	343.7	342.5
30°	322.0	326.2	329.9	333.7	331.9
32.5°	310.7	314.6	319.1	323.8	321.7
35°	299.3	302.9	308.1	312.7	311.2
37.5°	286.7	291.1	297.0	301.1	300.0
40°	274.9	279.0	286.1	288.7	288.5
42.5°	263.1	266.4	273.9	276.9	276.4
45°	248.6	253.0	261.5	264.4	264.6
47.5°	235.7	239.4	248.6	250.8	251.3
50°	221.0	225.6	234.8	237.5	237.9
52.5°	206.4	211.5	220.8	222.8	223.1
55°	191.7	196.2	206.4	207.9	207.3
57.5°	176.2	181.7	191.1	191.8	192.4
60°	161.1	165.9	175.0	176.0	174.7
62.5°	144.7	149.6	158.9	159.2	158.1
65°	129.1	132.8	142.3	142.0	141.3
67.5°	112.8	117.3	124.3	124.5	123.9
70°	97.5	100.6	107.4	107.5	106.0
72.5°	81.1	84.4	89.8	89.1	88.8
75°	65.1	67.8	72.0	72.5	71.3
77.5°	50.5	52.4	55.5	55.2	53.9
80°	35.5	37.1	39.3	38.9	37.4
82.5°	22.7	23.6	25.1	24.5	23.9
85°	12.4	12.5	12.6	12.5	12.1
87.5°	4.6	4.7	4.7	4.6	4.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)