

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: P488474

Luminaire Tested: **CLM-12-2-INS-P12125-LD4-1LO-30-120-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: P488474
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-90
Description: 1X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

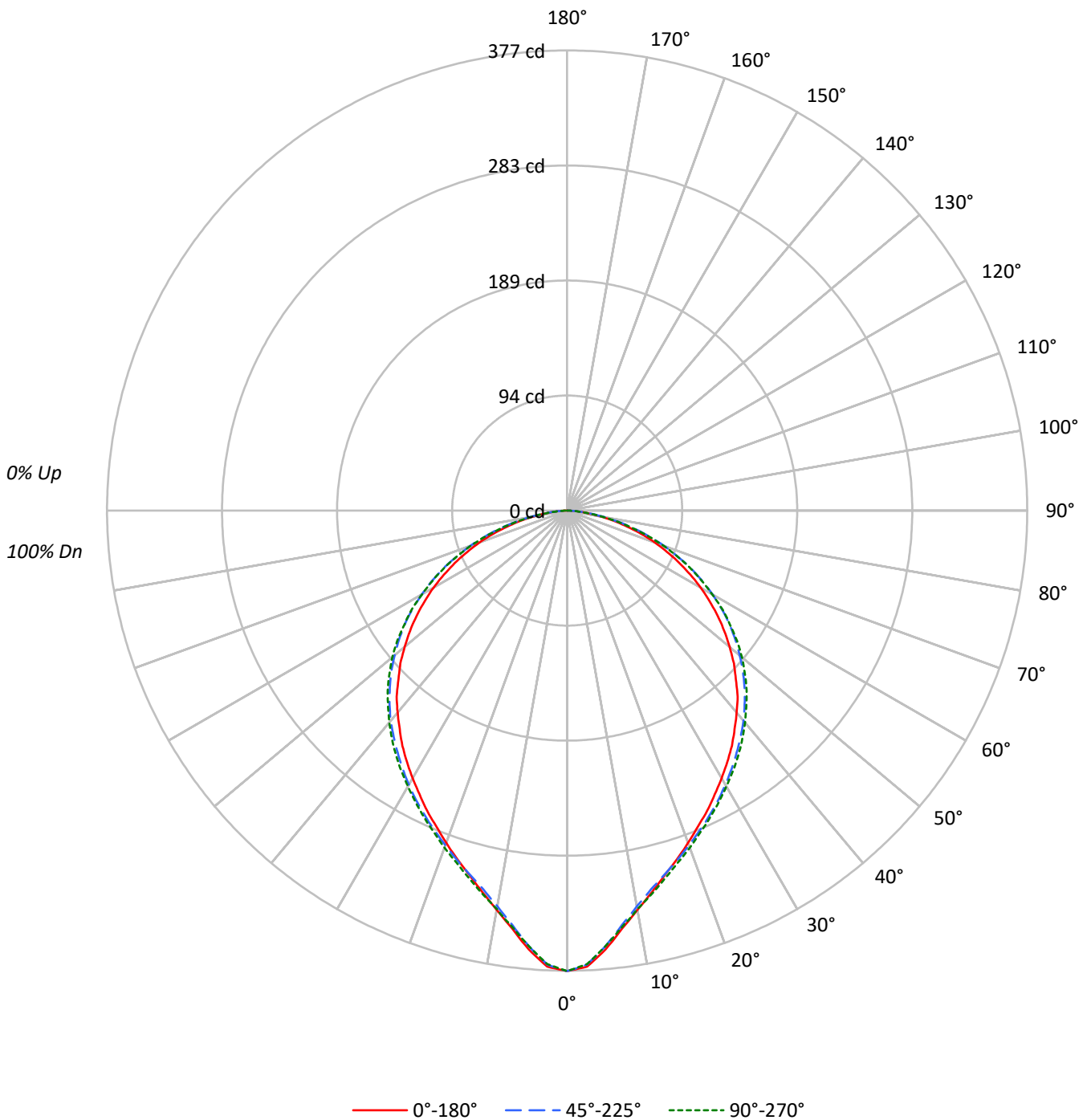
Lumens per Lamp: N/A
Luminaire Lumens: 876.5 lumens
Efficiency: N/A
Efficacy: 74.9 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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	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°	2031	2031	2031
5°	1950	1936	1936
10°	1815	1799	1812
15°	1722	1719	1736
20°	1659	1671	1684
25°	1612	1638	1647
30°	1573	1611	1621
35°	1546	1591	1607
40°	1518	1580	1593
45°	1487	1564	1583
50°	1454	1545	1566
55°	1414	1523	1529
60°	1363	1481	1478
65°	1293	1424	1415
70°	1207	1328	1312
75°	1065	1177	1164
80°	865	958	911
85°	599	611	587



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.3	3.8
10°-20°	87.3	10.0
20°-30°	127.0	14.5
30°-40°	151.1	17.2
40°-50°	156.9	17.9
50°-60°	142.2	16.2
60°-70°	107.3	12.2
70°-80°	58.5	6.7
80°-90°	12.8	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
0°-30°	247.7	28.3
0°-40°	398.8	45.5
0°-60°	697.9	79.6
0°-90°	876.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	876.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	377	377	377	377	377	
5°	361	360	358	358	358	33
15°	309	308	308	311	312	87
25°	271	274	276	278	277	125
35°	235	238	242	246	245	147
45°	195	199	206	208	208	151
55°	151	154	162	163	163	135
65°	102	104	112	112	111	100
75°	51	53	57	57	56	55
85°	10	10	10	10	10	12
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	377.3	377.3	377.3	377.3	377.3
2.5°	374.0	373.7	372.4	372.0	371.9
5°	360.9	360.1	358.4	358.2	358.4
7.5°	345.3	344.3	342.7	343.3	344.2
10°	332.1	329.7	329.1	330.0	331.6
12.5°	320.3	318.4	317.8	320.3	321.4
15°	309.1	308.3	308.5	310.6	311.5
17.5°	299.4	298.9	300.1	301.7	302.2
20°	289.7	290.6	291.7	293.4	294.0
22.5°	280.1	281.9	283.8	286.1	285.3
25°	271.4	273.6	275.8	278.1	277.4
27.5°	262.0	264.7	267.7	270.1	269.2
30°	253.1	256.4	259.3	262.3	260.9
32.5°	244.2	247.3	250.8	254.5	252.9
35°	235.3	238.1	242.1	245.8	244.6
37.5°	225.4	228.8	233.5	236.7	235.8
40°	216.1	219.3	224.9	227.0	226.8
42.5°	206.8	209.4	215.3	217.6	217.2
45°	195.4	198.9	205.5	207.8	208.0
47.5°	185.3	188.2	195.4	197.2	197.5
50°	173.7	177.4	184.5	186.7	187.0
52.5°	162.3	166.2	173.6	175.1	175.4
55°	150.7	154.3	162.3	163.4	162.9
57.5°	138.5	142.8	150.2	150.8	151.2
60°	126.6	130.4	137.6	138.3	137.3
62.5°	113.7	117.6	124.9	125.1	124.3
65°	101.5	104.4	111.8	111.6	111.1
67.5°	88.6	92.2	97.7	97.9	97.4
70°	76.7	79.1	84.4	84.5	83.4
72.5°	63.7	66.4	70.6	70.1	69.8
75°	51.2	53.3	56.6	57.0	56.0
77.5°	39.7	41.2	43.7	43.4	42.3
80°	27.9	29.1	30.9	30.6	29.4
82.5°	17.8	18.6	19.7	19.2	18.8
85°	9.7	9.8	9.9	9.8	9.5
87.5°	3.6	3.7	3.7	3.6	3.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)