

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: P488479

Luminaire Tested: **CLM-12-2-INS-P12125-LD4-1LO-40-120-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: P488479
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-40-120-EDD
Description: 1X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

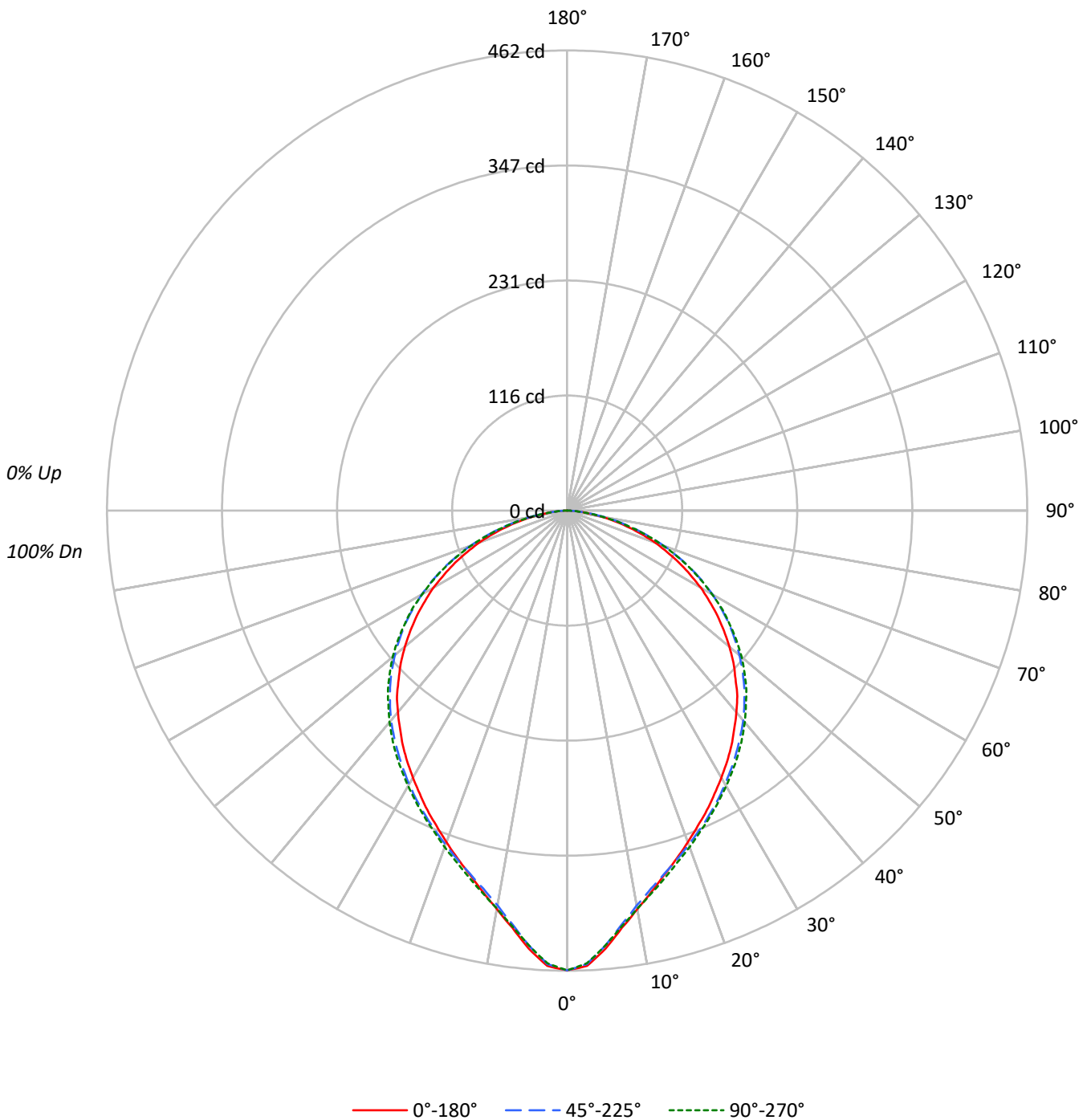
Lumens per Lamp: N/A
Luminaire Lumens: 1072.2 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	2484	2484	2484
5°	2385	2368	2368
10°	2220	2200	2217
15°	2107	2103	2123
20°	2029	2044	2060
25°	1972	2004	2015
30°	1924	1971	1984
35°	1891	1946	1966
40°	1858	1933	1949
45°	1819	1913	1936
50°	1779	1890	1915
55°	1729	1863	1870
60°	1667	1812	1807
65°	1580	1742	1731
70°	1476	1624	1605
75°	1302	1439	1424
80°	1057	1172	1116
85°	735	747	716



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.8	3.8
10°-20°	106.8	10.0
20°-30°	155.4	14.5
30°-40°	184.9	17.2
40°-50°	192.0	17.9
50°-60°	173.9	16.2
60°-70°	131.2	12.2
70°-80°	71.5	6.7
80°-90°	15.7	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°	303.0	28.3
0°-40°	487.9	45.5
0°-60°	853.7	79.6
0°-90°	1072.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1072.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	462	462	462	462	462	
5°	442	440	438	438	438	41
15°	378	377	377	380	381	107
25°	332	335	337	340	339	153
35°	288	291	296	301	299	180
45°	239	243	251	254	254	185
55°	184	189	198	200	199	165
65°	124	128	137	137	136	123
75°	63	65	69	70	68	67
85°	12	12	12	12	12	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	461.6	461.6	461.6	461.6	461.6
2.5°	457.6	457.1	455.6	455.0	454.9
5°	441.5	440.5	438.4	438.2	438.4
7.5°	422.4	421.2	419.2	420.0	421.0
10°	406.2	403.4	402.5	403.7	405.7
12.5°	391.8	389.5	388.8	391.8	393.2
15°	378.1	377.2	377.4	379.9	381.1
17.5°	366.2	365.6	367.1	369.1	369.7
20°	354.3	355.5	356.9	358.9	359.6
22.5°	342.7	344.9	347.2	349.9	349.0
25°	332.0	334.7	337.4	340.1	339.3
27.5°	320.5	323.8	327.5	330.5	329.3
30°	309.6	313.6	317.2	320.9	319.2
32.5°	298.7	302.5	306.8	311.3	309.3
35°	287.8	291.2	296.2	300.7	299.2
37.5°	275.7	279.9	285.6	289.5	288.5
40°	264.4	268.3	275.1	277.6	277.4
42.5°	252.9	256.2	263.3	266.2	265.7
45°	239.0	243.3	251.4	254.2	254.4
47.5°	226.6	230.2	239.0	241.2	241.6
50°	212.5	217.0	225.7	228.4	228.7
52.5°	198.5	203.3	212.3	214.2	214.5
55°	184.3	188.7	198.5	199.9	199.3
57.5°	169.4	174.7	183.7	184.4	185.0
60°	154.9	159.5	168.3	169.2	167.9
62.5°	139.1	143.8	152.8	153.1	152.0
65°	124.1	127.7	136.8	136.6	135.9
67.5°	108.4	112.8	119.5	119.7	119.2
70°	93.8	96.8	103.2	103.3	102.0
72.5°	78.0	81.2	86.4	85.7	85.4
75°	62.6	65.2	69.2	69.7	68.5
77.5°	48.6	50.4	53.4	53.1	51.8
80°	34.1	35.6	37.8	37.4	36.0
82.5°	21.8	22.7	24.1	23.5	23.0
85°	11.9	12.0	12.1	12.0	11.6
87.5°	4.4	4.5	4.5	4.4	4.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)