

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: P489266

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-2LO-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: P489266
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-24-2-INS-P12125-LD4-2LO-30-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

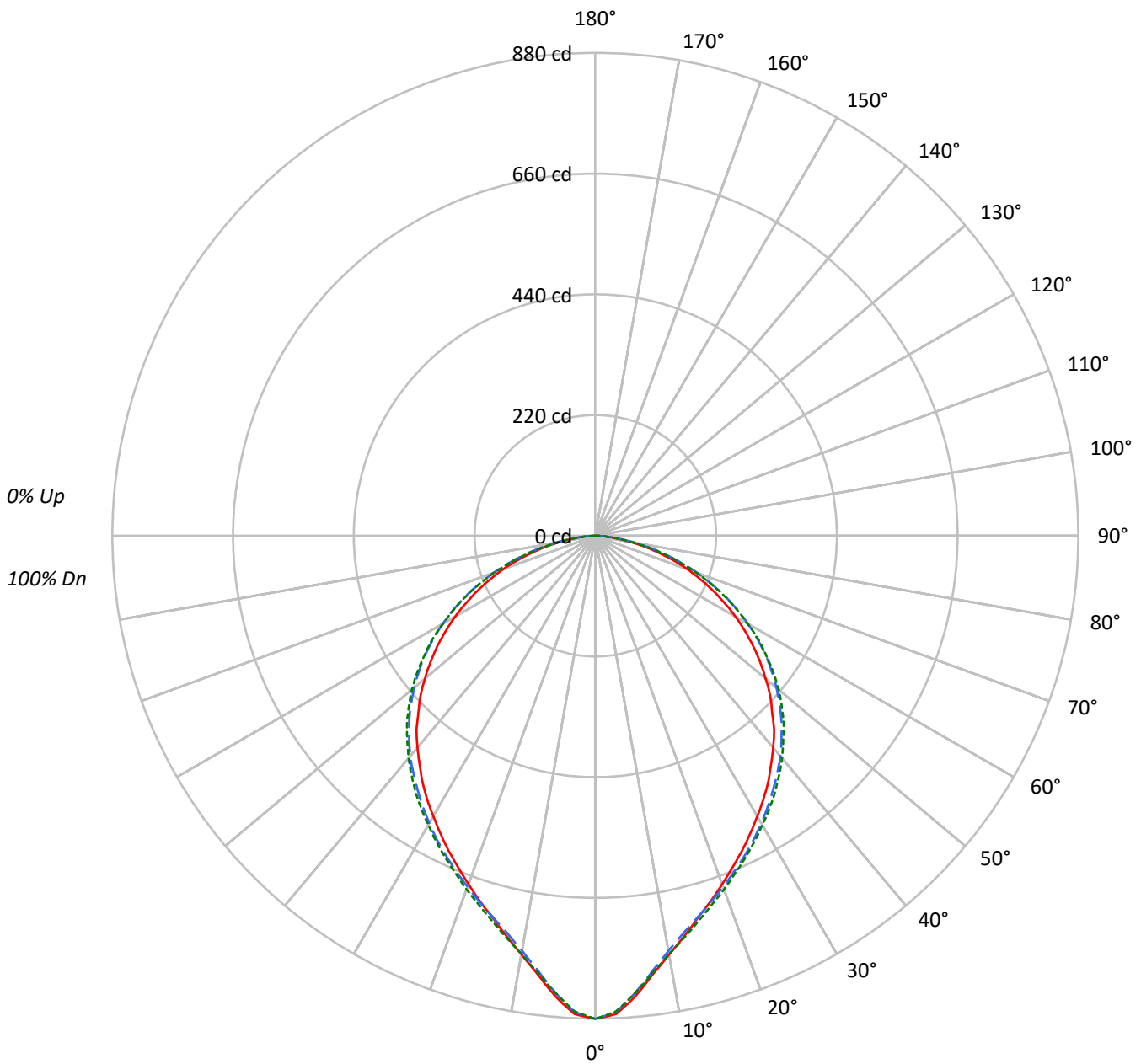
Lumens per Lamp: N/A
Luminaire Lumens: 2045.0 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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



— 0°-180° - - 45°-225° - - - 90°-270°



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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°	2369	2369	2369
5°	2275	2259	2259
10°	2117	2098	2114
15°	2009	2005	2025
20°	1935	1949	1964
25°	1880	1911	1922
30°	1835	1880	1891
35°	1803	1856	1875
40°	1771	1843	1859
45°	1735	1825	1847
50°	1696	1802	1826
55°	1649	1776	1783
60°	1590	1728	1724
65°	1507	1661	1650
70°	1407	1549	1530
75°	1242	1372	1359
80°	1009	1119	1063
85°	701	713	685



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.8	3.8
10°-20°	203.8	10.0
20°-30°	296.3	14.5
30°-40°	352.6	17.2
40°-50°	366.1	17.9
50°-60°	331.7	16.2
60°-70°	250.3	12.2
70°-80°	136.4	6.7
80°-90°	30.0	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°	577.9	28.3
0°-40°	930.5	45.5
0°-60°	1628.4	79.6
0°-90°	2045.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2045.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	880	880	880	880	880	
5°	842	840	836	836	836	78
15°	721	719	720	725	727	204
25°	633	638	644	649	647	292
35°	549	556	565	574	571	343
45°	456	464	480	485	485	352
55°	352	360	379	381	380	314
65°	237	244	261	260	259	234
75°	120	124	132	133	131	127
85°	23	23	23	23	22	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	880.4	880.4	880.4	880.4	880.4
2.5°	872.7	871.8	869.0	867.9	867.6
5°	842.1	840.1	836.2	835.7	836.2
7.5°	805.6	803.4	799.5	801.0	803.0
10°	774.8	769.3	767.8	770.0	773.7
12.5°	747.3	742.9	741.6	747.3	750.0
15°	721.1	719.4	719.8	724.7	726.8
17.5°	698.5	697.4	700.2	704.0	705.1
20°	675.8	678.0	680.7	684.6	685.9
22.5°	653.6	657.8	662.2	667.5	665.7
25°	633.1	638.4	643.5	648.8	647.2
27.5°	611.4	617.5	624.6	630.3	628.1
30°	590.4	598.2	605.0	612.0	608.7
32.5°	569.8	577.0	585.2	593.8	590.0
35°	548.9	555.5	564.9	573.5	570.7
37.5°	525.8	533.9	544.7	552.2	550.2
40°	504.2	511.7	524.7	529.5	529.1
42.5°	482.4	488.6	502.2	507.7	506.9
45°	455.8	464.0	479.6	484.9	485.3
47.5°	432.3	439.1	455.8	460.0	460.9
50°	405.2	413.8	430.5	435.6	436.2
52.5°	378.6	387.8	405.0	408.5	409.2
55°	351.5	359.9	378.6	381.3	380.1
57.5°	323.2	333.3	350.5	351.8	352.9
60°	295.4	304.2	321.0	322.7	320.3
62.5°	265.3	274.3	291.5	291.9	289.9
65°	236.7	243.5	260.9	260.5	259.1
67.5°	206.8	215.1	227.9	228.3	227.3
70°	178.8	184.6	196.9	197.1	194.5
72.5°	148.7	154.9	164.8	163.5	162.8
75°	119.5	124.3	132.0	132.9	130.7
77.5°	92.6	96.1	101.9	101.2	98.8
80°	65.1	68.0	72.2	71.3	68.6
82.5°	41.6	43.3	46.0	44.9	43.8
85°	22.7	22.9	23.1	22.9	22.2
87.5°	8.4	8.6	8.6	8.4	7.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)