

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: P489272

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-2LO-50-120-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: P489272
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-50-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

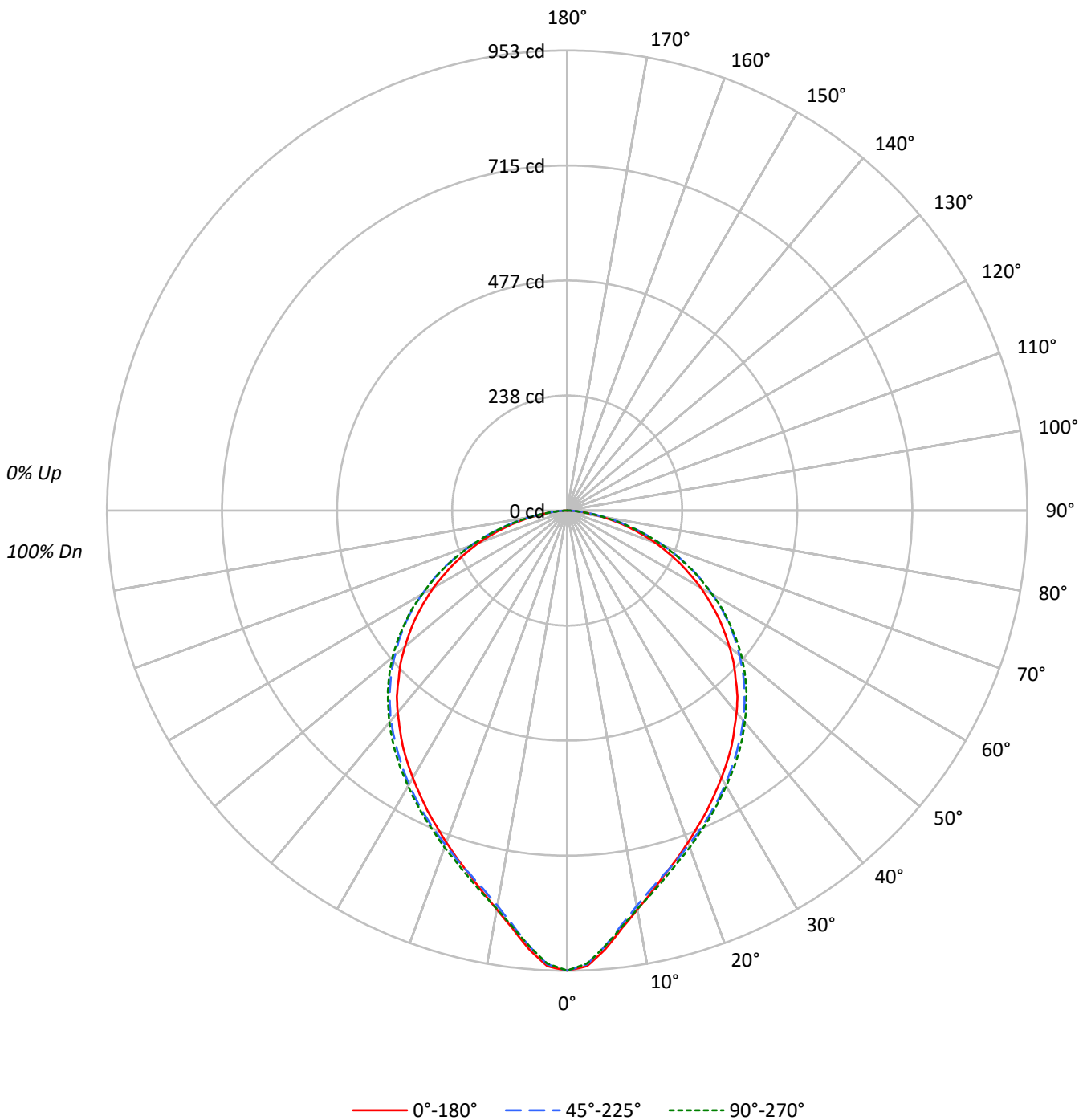
Lumens per Lamp: N/A
Luminaire Lumens: 2213.2 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
Input Voltage (V): NR
Input Current (A_{in}): 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°	2564	2564	2564
5°	2462	2445	2445
10°	2291	2270	2288
15°	2174	2170	2191
20°	2094	2109	2126
25°	2034	2068	2080
30°	1986	2034	2047
35°	1951	2008	2029
40°	1917	1995	2011
45°	1877	1975	1999
50°	1836	1950	1976
55°	1785	1922	1930
60°	1721	1870	1866
65°	1631	1798	1786
70°	1523	1677	1656
75°	1344	1486	1470
80°	1093	1210	1151
85°	756	772	741



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.2	3.8
10°-20°	220.5	10.0
20°-30°	320.7	14.5
30°-40°	381.6	17.2
40°-50°	396.2	17.9
50°-60°	359.0	16.2
60°-70°	270.9	12.2
70°-80°	147.6	6.7
80°-90°	32.4	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°	625.4	28.3
0°-40°	1007.0	45.5
0°-60°	1762.3	79.6
0°-90°	2213.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2213.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	953	953	953	953	953	
5°	911	909	905	904	905	85
15°	780	778	779	784	787	220
25°	685	691	696	702	700	316
35°	594	601	611	621	618	371
45°	493	502	519	525	525	381
55°	380	390	410	413	411	340
65°	256	264	282	282	280	253
75°	129	134	143	144	141	138
85°	24	25	25	25	24	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	952.8	952.8	952.8	952.8	952.8
2.5°	944.5	943.5	940.4	939.2	939.0
5°	911.4	909.2	905.0	904.5	905.0
7.5°	871.9	869.5	865.2	866.9	869.0
10°	838.5	832.6	830.9	833.3	837.3
12.5°	808.8	804.0	802.6	808.8	811.6
15°	780.4	778.5	779.0	784.3	786.6
17.5°	755.9	754.7	757.8	761.9	763.1
20°	731.4	733.8	736.6	740.9	742.3
22.5°	707.4	711.9	716.6	722.3	720.4
25°	685.2	690.9	696.4	702.1	700.5
27.5°	661.6	668.3	675.9	682.1	679.7
30°	639.0	647.3	654.7	662.3	658.8
32.5°	616.6	624.5	633.3	642.6	638.5
35°	594.0	601.2	611.4	620.7	617.6
37.5°	569.0	577.8	589.5	597.6	595.5
40°	545.7	553.8	567.8	573.1	572.6
42.5°	522.1	528.8	543.5	549.5	548.5
45°	493.3	502.1	519.0	524.7	525.2
47.5°	467.8	475.2	493.3	497.8	498.8
50°	438.6	447.8	465.9	471.4	472.1
52.5°	409.7	419.7	438.3	442.1	442.8
55°	380.5	389.5	409.7	412.6	411.4
57.5°	349.8	360.7	379.3	380.7	381.9
60°	319.7	329.3	347.4	349.3	346.7
62.5°	287.1	296.9	315.5	315.9	313.8
65°	256.2	263.6	282.4	281.9	280.5
67.5°	223.8	232.8	246.7	247.1	246.0
70°	193.6	199.7	213.1	213.3	210.5
72.5°	161.0	167.6	178.3	176.9	176.2
75°	129.3	134.5	142.9	143.8	141.4
77.5°	100.2	104.0	110.2	109.5	106.9
80°	70.5	73.6	78.1	77.1	74.3
82.5°	45.0	46.9	49.8	48.6	47.4
85°	24.5	24.8	25.0	24.8	24.0
87.5°	9.0	9.3	9.3	9.0	8.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)