

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: P489268

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-2LO-35-120-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: P489268
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-35-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

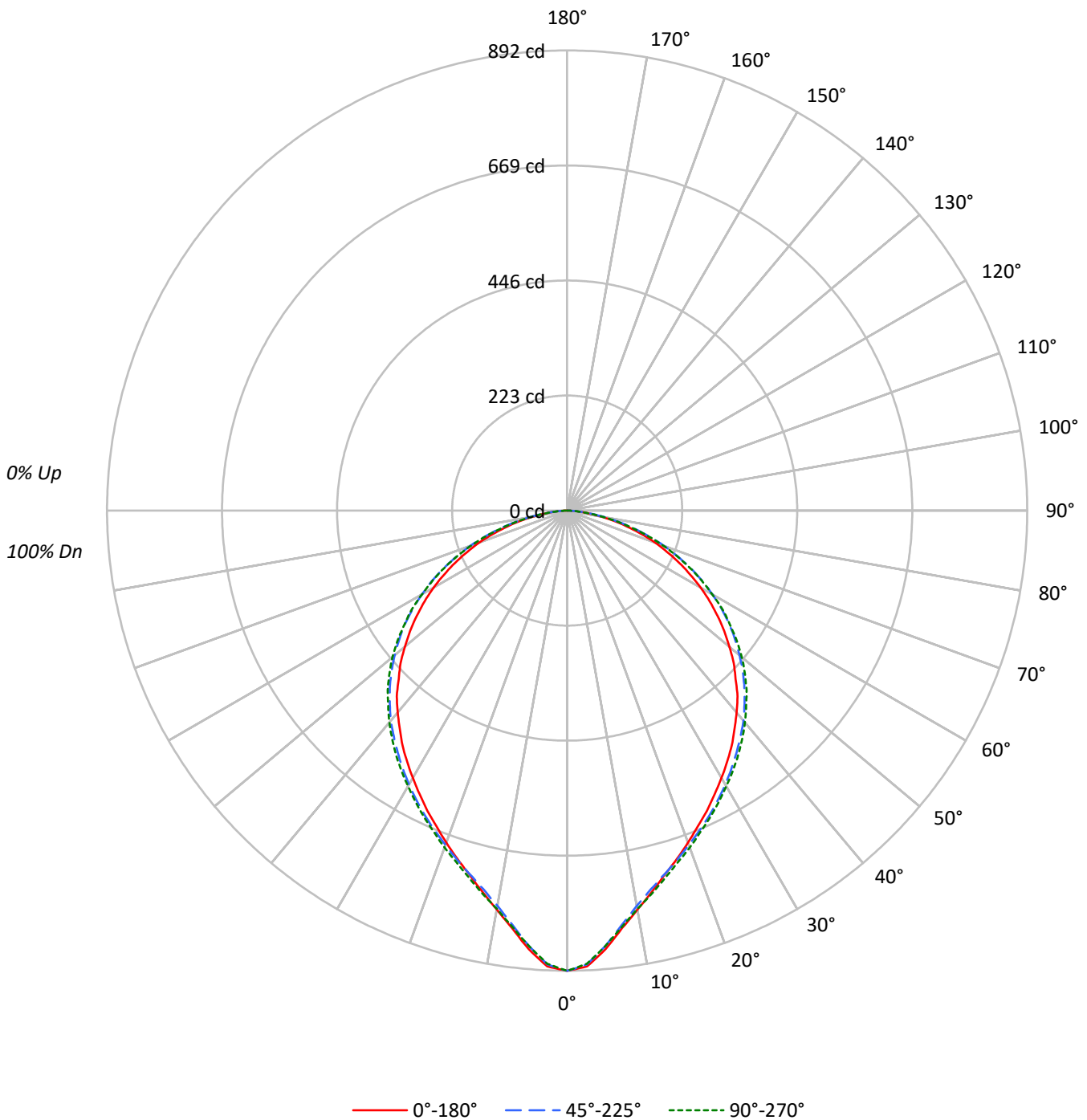
Lumens per Lamp: N/A
Luminaire Lumens: 2072.3 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.23
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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





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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°	2401	2401	2401
5°	2305	2289	2289
10°	2146	2126	2142
15°	2036	2032	2052
20°	1961	1975	1991
25°	1905	1936	1947
30°	1859	1905	1917
35°	1827	1881	1900
40°	1795	1868	1883
45°	1758	1850	1872
50°	1719	1827	1851
55°	1671	1800	1807
60°	1611	1750	1747
65°	1528	1684	1672
70°	1426	1570	1551
75°	1258	1391	1377
80°	1023	1133	1077
85°	710	722	695



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.8	3.8
10°-20°	206.5	10.0
20°-30°	300.3	14.5
30°-40°	357.3	17.2
40°-50°	371.0	17.9
50°-60°	336.1	16.2
60°-70°	253.6	12.2
70°-80°	138.2	6.7
80°-90°	30.4	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°	585.6	28.3
0°-40°	942.9	45.5
0°-60°	1650.1	79.6
0°-90°	2072.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2072.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	892	892	892	892	892	
5°	853	851	847	847	847	79
15°	731	729	729	734	736	206
25°	642	647	652	657	656	296
35°	556	563	572	581	578	348
45°	462	470	486	491	492	357
55°	356	365	384	386	385	318
65°	240	247	264	264	263	237
75°	121	126	134	135	132	129
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°	892.2	892.2	892.2	892.2	892.2
2.5°	884.4	883.5	880.6	879.4	879.2
5°	853.4	851.4	847.3	846.9	847.3
7.5°	816.4	814.1	810.1	811.7	813.7
10°	785.2	779.6	778.0	780.2	784.0
12.5°	757.3	752.8	751.5	757.3	760.0
15°	730.7	729.0	729.4	734.3	736.5
17.5°	707.8	706.7	709.6	713.4	714.5
20°	684.8	687.1	689.7	693.8	695.1
22.5°	662.3	666.5	671.0	676.4	674.6
25°	641.6	646.9	652.1	657.4	655.9
27.5°	619.5	625.7	632.9	638.7	636.5
30°	598.3	606.1	613.1	620.2	616.8
32.5°	577.4	584.7	593.0	601.7	597.9
35°	556.2	562.9	572.5	581.2	578.3
37.5°	532.8	541.0	552.0	559.5	557.5
40°	511.0	518.5	531.7	536.6	536.1
42.5°	488.9	495.1	508.9	514.5	513.6
45°	461.9	470.2	486.0	491.3	491.8
47.5°	438.1	445.0	461.9	466.1	467.0
50°	410.6	419.3	436.3	441.4	442.1
52.5°	383.7	393.0	410.4	414.0	414.7
55°	356.2	364.7	383.7	386.3	385.2
57.5°	327.5	337.7	355.1	356.5	357.6
60°	299.4	308.3	325.2	327.0	324.6
62.5°	268.9	278.0	295.4	295.8	293.8
65°	239.9	246.8	264.4	263.9	262.6
67.5°	209.5	218.0	231.0	231.4	230.3
70°	181.2	187.0	199.5	199.7	197.1
72.5°	150.7	156.9	167.0	165.6	165.0
75°	121.0	126.0	133.8	134.7	132.4
77.5°	93.9	97.4	103.2	102.6	100.1
80°	66.0	68.9	73.1	72.2	69.5
82.5°	42.1	43.9	46.6	45.5	44.4
85°	23.0	23.2	23.4	23.2	22.5
87.5°	8.5	8.7	8.7	8.5	7.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)