

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: P489772

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-1LO-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: P489772
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-24-4-INS-P12125-LD4-1LO-35-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

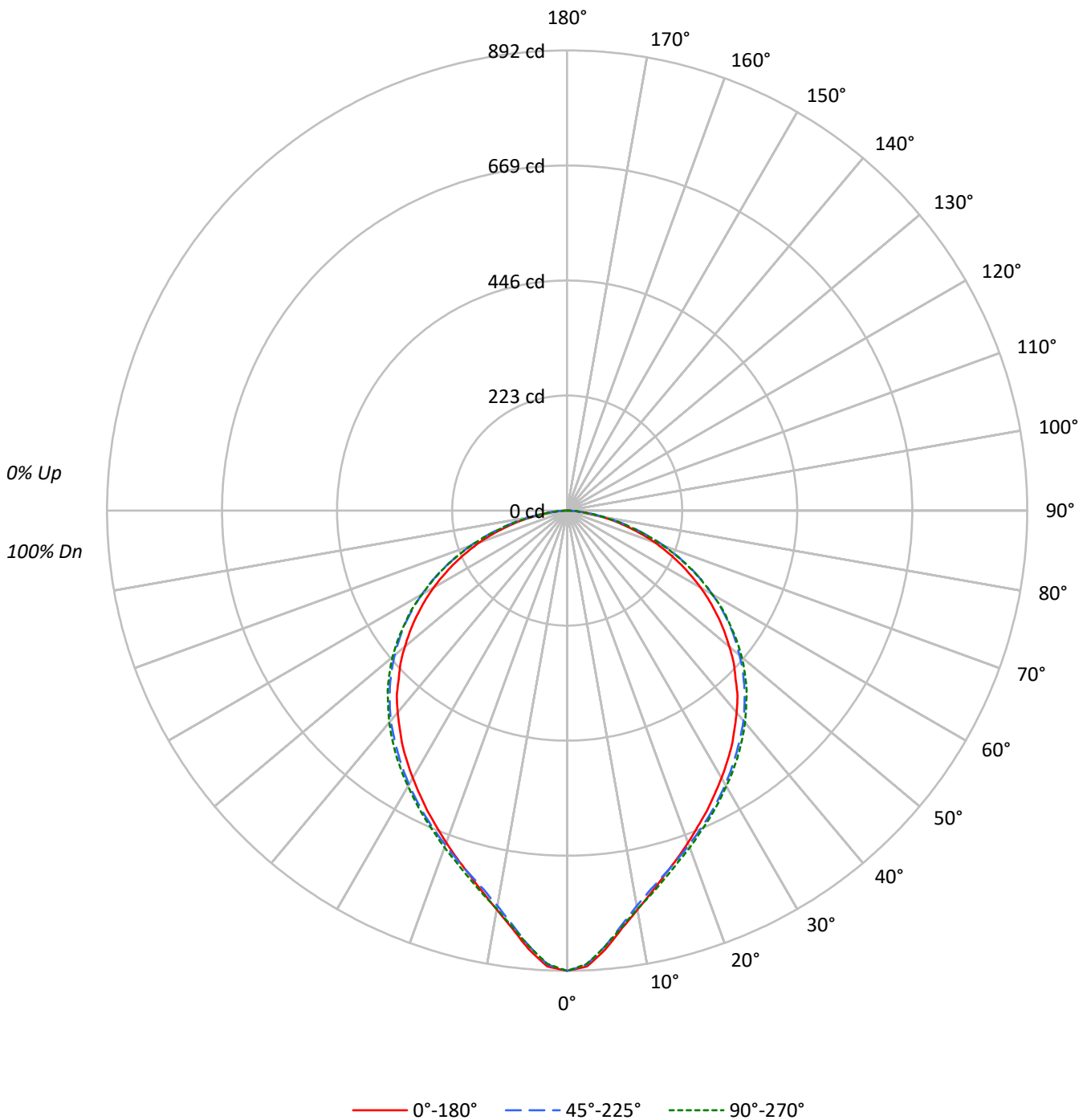
Lumens per Lamp: N/A
Luminaire Lumens: 2072.4 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P489772

CATALOG NUMBER: CLM-24-4-INS-P12125-LD4-1LO-35-120-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P489772

CATALOG NUMBER: CLM-24-4-INS-P12125-LD4-1LO-35-120-EDD-90

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°	1200	1200	1200
5°	1153	1145	1145
10°	1073	1063	1071
15°	1018	1016	1026
20°	981	988	995
25°	953	968	974
30°	930	953	958
35°	914	940	950
40°	898	934	942
45°	879	925	936
50°	860	913	925
55°	836	900	904
60°	806	875	873
65°	764	842	836
70°	713	785	775
75°	630	696	688
80°	511	566	539
85°	355	361	347



TEST NUMBER: P489772

CATALOG NUMBER: CLM-24-4-INS-P12125-LD4-1LO-35-120-EDD-90

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°	371.1	17.9
50°-60°	336.1	16.2
60°-70°	253.7	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°	943.0	45.5
0°-60°	1650.2	79.6
0°-90°	2072.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2072.4	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	730	734	737	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	



TEST NUMBER: P489772

CATALOG NUMBER: CLM-24-4-INS-P12125-LD4-1LO-35-120-EDD-90

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	879.5	879.3
5°	853.4	851.4	847.4	846.9	847.4
7.5°	816.4	814.2	810.2	811.7	813.7
10°	785.2	779.6	778.0	780.3	784.1
12.5°	757.3	752.9	751.5	757.3	760.0
15°	730.8	729.0	729.5	734.4	736.6
17.5°	707.8	706.7	709.6	713.4	714.5
20°	684.9	687.1	689.8	693.8	695.1
22.5°	662.4	666.6	671.1	676.4	674.6
25°	641.6	647.0	652.1	657.4	655.9
27.5°	619.5	625.8	632.9	638.7	636.5
30°	598.4	606.2	613.1	620.2	616.9
32.5°	577.4	584.8	593.0	601.7	597.9
35°	556.2	562.9	572.5	581.2	578.3
37.5°	532.8	541.1	552.0	559.6	557.6
40°	511.0	518.6	531.7	536.6	536.2
42.5°	488.9	495.2	509.0	514.5	513.6
45°	461.9	470.2	486.0	491.4	491.8
47.5°	438.1	445.0	461.9	466.2	467.1
50°	410.7	419.4	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	386.4	385.2
57.5°	327.5	337.8	355.1	356.5	357.6
60°	299.4	308.3	325.3	327.0	324.6
62.5°	268.9	278.0	295.4	295.8	293.8
65°	239.9	246.8	264.4	264.0	262.6
67.5°	209.6	218.0	231.0	231.4	230.3
70°	181.2	187.0	199.5	199.8	197.1
72.5°	150.7	156.9	167.0	165.6	165.0
75°	121.1	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)