

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: P489768

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-1LO-27-120-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: P489768
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-27-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

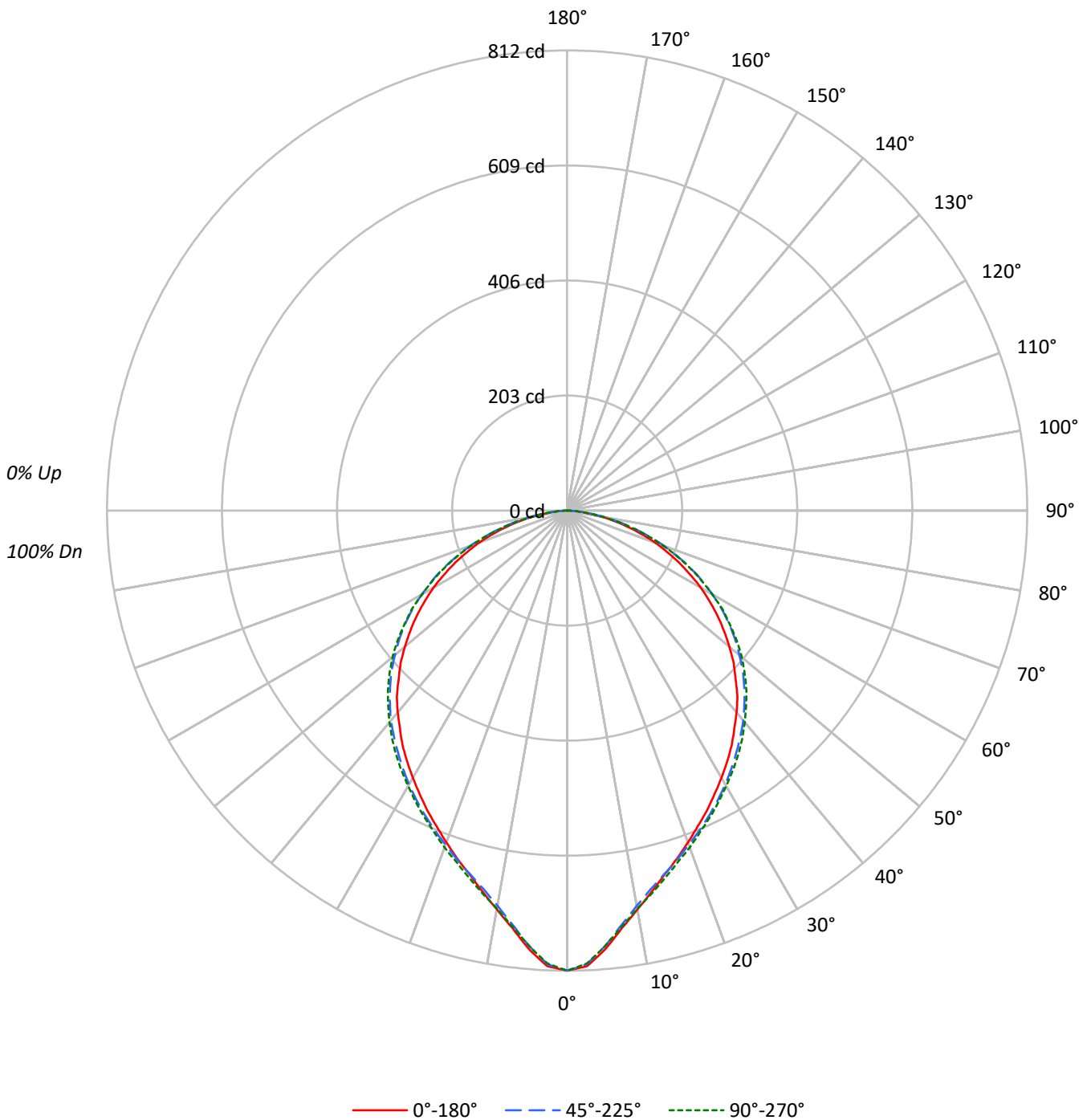
Lumens per Lamp: N/A
Luminaire Lumens: 1885.4 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.23
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

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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°	1092	1092	1092
5°	1049	1041	1041
10°	976	967	975
15°	926	924	933
20°	892	898	905
25°	867	881	886
30°	846	867	872
35°	831	855	864
40°	817	850	857
45°	800	841	851
50°	782	831	842
55°	760	819	822
60°	733	796	795
65°	695	766	761
70°	649	714	705
75°	572	633	626
80°	465	515	490
85°	323	329	316



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.7	3.8
10°-20°	187.9	10.0
20°-30°	273.2	14.5
30°-40°	325.1	17.2
40°-50°	337.6	17.9
50°-60°	305.8	16.2
60°-70°	230.7	12.2
70°-80°	125.7	6.7
80°-90°	27.6	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°	532.8	28.3
0°-40°	857.9	45.5
0°-60°	1501.3	79.6
0°-90°	1885.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1885.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	812	812	812	812	812	
5°	776	775	771	770	771	72
15°	665	663	664	668	670	188
25°	584	589	593	598	597	269
35°	506	512	521	529	526	316
45°	420	428	442	447	447	325
55°	324	332	349	352	350	289
65°	218	224	240	240	239	216
75°	110	115	122	122	120	117
85°	21	21	21	21	20	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	811.7	811.7	811.7	811.7	811.7
2.5°	804.6	803.8	801.1	800.1	799.9
5°	776.4	774.6	770.9	770.5	770.9
7.5°	742.7	740.7	737.1	738.5	740.3
10°	714.3	709.3	707.8	709.9	713.3
12.5°	689.0	684.9	683.7	689.0	691.4
15°	664.8	663.2	663.6	668.1	670.1
17.5°	644.0	642.9	645.6	649.0	650.0
20°	623.1	625.1	627.5	631.2	632.4
22.5°	602.6	606.4	610.5	615.4	613.7
25°	583.7	588.6	593.3	598.1	596.7
27.5°	563.6	569.3	575.8	581.1	579.1
30°	544.4	551.5	557.8	564.2	561.2
32.5°	525.3	532.0	539.5	547.4	544.0
35°	506.0	512.1	520.8	528.8	526.1
37.5°	484.7	492.2	502.2	509.1	507.3
40°	464.9	471.8	483.7	488.2	487.8
42.5°	444.8	450.5	463.0	468.1	467.3
45°	420.3	427.8	442.1	447.0	447.4
47.5°	398.5	404.8	420.3	424.1	424.9
50°	373.6	381.5	396.9	401.6	402.2
52.5°	349.0	357.6	373.4	376.6	377.3
55°	324.1	331.8	349.0	351.5	350.5
57.5°	297.9	307.3	323.1	324.3	325.3
60°	272.4	280.5	295.9	297.5	295.3
62.5°	244.6	252.9	268.7	269.1	267.3
65°	218.2	224.5	240.5	240.1	238.9
67.5°	190.6	198.4	210.1	210.5	209.5
70°	164.9	170.2	181.5	181.7	179.3
72.5°	137.1	142.8	151.9	150.7	150.1
75°	110.1	114.6	121.7	122.5	120.5
77.5°	85.4	88.6	93.9	93.3	91.1
80°	60.0	62.7	66.5	65.7	63.3
82.5°	38.3	40.0	42.4	41.4	40.4
85°	20.9	21.1	21.3	21.1	20.5
87.5°	7.7	7.9	7.9	7.7	7.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)