

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: P489241

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-1STD-27-120-EDD**

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: P489241
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-LD4-1STD-27-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

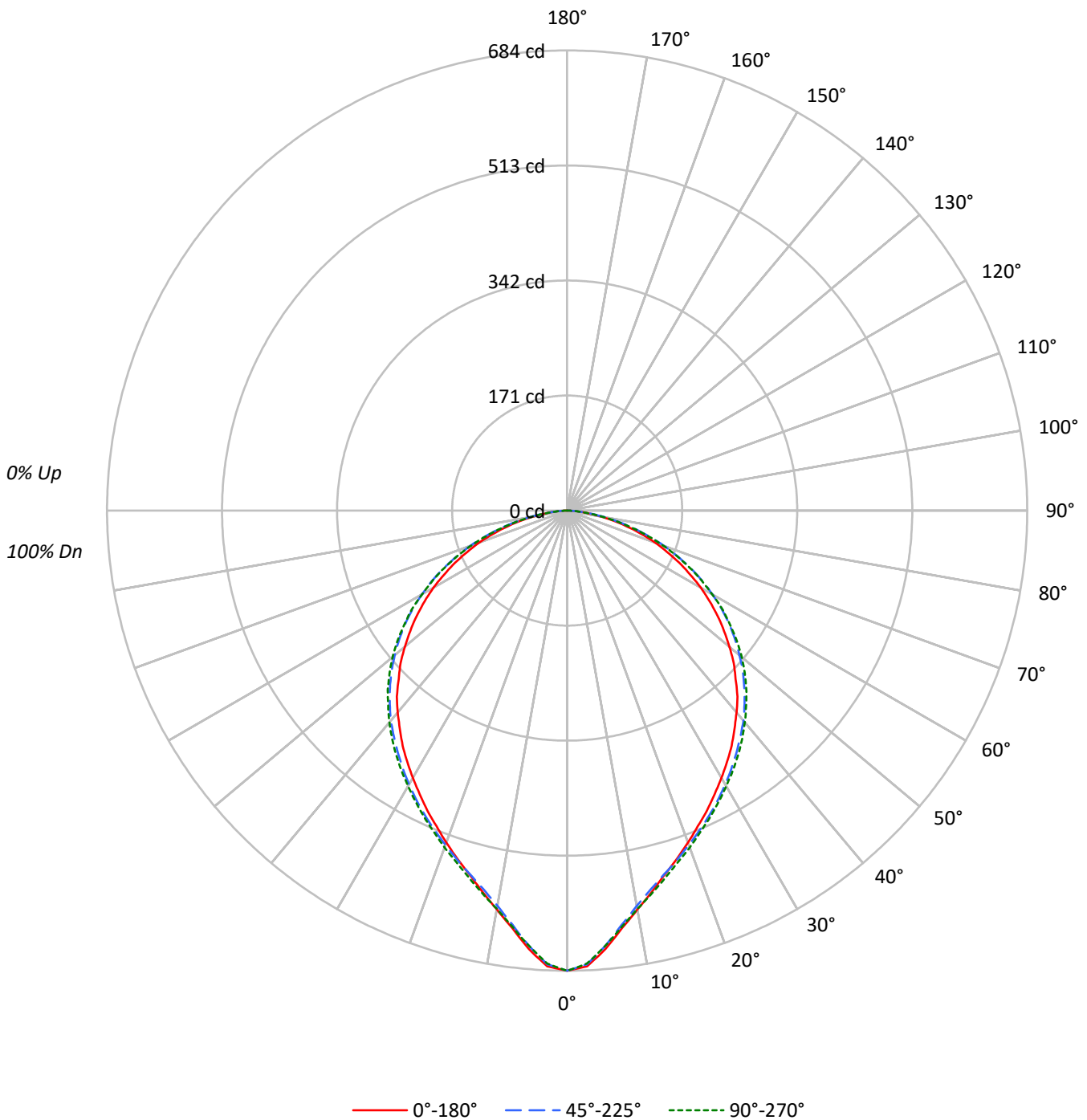
Lumens per Lamp: N/A
Luminaire Lumens: 1588.7 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
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°	1841	1841	1841
5°	1767	1755	1755
10°	1645	1630	1643
15°	1561	1558	1573
20°	1503	1514	1526
25°	1461	1484	1493
30°	1425	1460	1469
35°	1401	1442	1456
40°	1376	1432	1444
45°	1348	1418	1435
50°	1318	1400	1419
55°	1281	1380	1385
60°	1235	1342	1339
65°	1171	1291	1282
70°	1093	1204	1189
75°	965	1066	1055
80°	784	869	826
85°	543	553	534



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.4	3.8
10°-20°	158.3	10.0
20°-30°	230.2	14.5
30°-40°	273.9	17.2
40°-50°	284.4	17.9
50°-60°	257.7	16.2
60°-70°	194.5	12.2
70°-80°	105.9	6.7
80°-90°	23.3	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°	449.0	28.3
0°-40°	722.9	45.5
0°-60°	1265.0	79.6
0°-90°	1588.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1588.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	684	684	684	684	684	
5°	654	653	650	649	650	61
15°	560	559	559	563	565	158
25°	492	496	500	504	503	227
35°	426	432	439	446	443	267
45°	354	360	373	377	377	274
55°	273	280	294	296	295	244
65°	184	189	203	202	201	182
75°	93	97	102	103	102	99
85°	18	18	18	18	17	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	684.0	684.0	684.0	684.0	684.0
2.5°	678.0	677.3	675.1	674.2	674.0
5°	654.2	652.7	649.6	649.3	649.6
7.5°	625.9	624.1	621.1	622.3	623.8
10°	601.9	597.7	596.4	598.2	601.1
12.5°	580.6	577.1	576.1	580.6	582.6
15°	560.2	558.9	559.2	563.0	564.7
17.5°	542.6	541.8	544.0	546.9	547.8
20°	525.0	526.7	528.8	531.9	532.9
22.5°	507.8	511.0	514.4	518.5	517.2
25°	491.9	496.0	499.9	504.0	502.8
27.5°	474.9	479.7	485.2	489.6	487.9
30°	458.7	464.7	470.0	475.5	472.9
32.5°	442.6	448.3	454.6	461.3	458.4
35°	426.4	431.5	438.9	445.6	443.3
37.5°	408.5	414.8	423.2	429.0	427.4
40°	391.7	397.5	407.6	411.4	411.0
42.5°	374.8	379.6	390.2	394.4	393.8
45°	354.1	360.4	372.6	376.7	377.0
47.5°	335.8	341.1	354.1	357.4	358.0
50°	314.8	321.5	334.5	338.4	338.9
52.5°	294.1	301.3	314.6	317.4	317.9
55°	273.1	279.6	294.1	296.2	295.3
57.5°	251.1	258.9	272.3	273.3	274.1
60°	229.5	236.4	249.3	250.7	248.8
62.5°	206.1	213.1	226.5	226.8	225.2
65°	183.9	189.2	202.7	202.4	201.3
67.5°	160.6	167.1	177.1	177.4	176.6
70°	138.9	143.4	153.0	153.1	151.1
72.5°	115.5	120.3	128.0	127.0	126.5
75°	92.8	96.6	102.5	103.2	101.5
77.5°	72.0	74.7	79.1	78.6	76.7
80°	50.6	52.8	56.1	55.4	53.3
82.5°	32.3	33.7	35.7	34.9	34.0
85°	17.6	17.8	17.9	17.8	17.3
87.5°	6.5	6.7	6.7	6.5	6.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)