

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: P489220

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-1HI-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: P489220
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-LD4-1HI-35-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

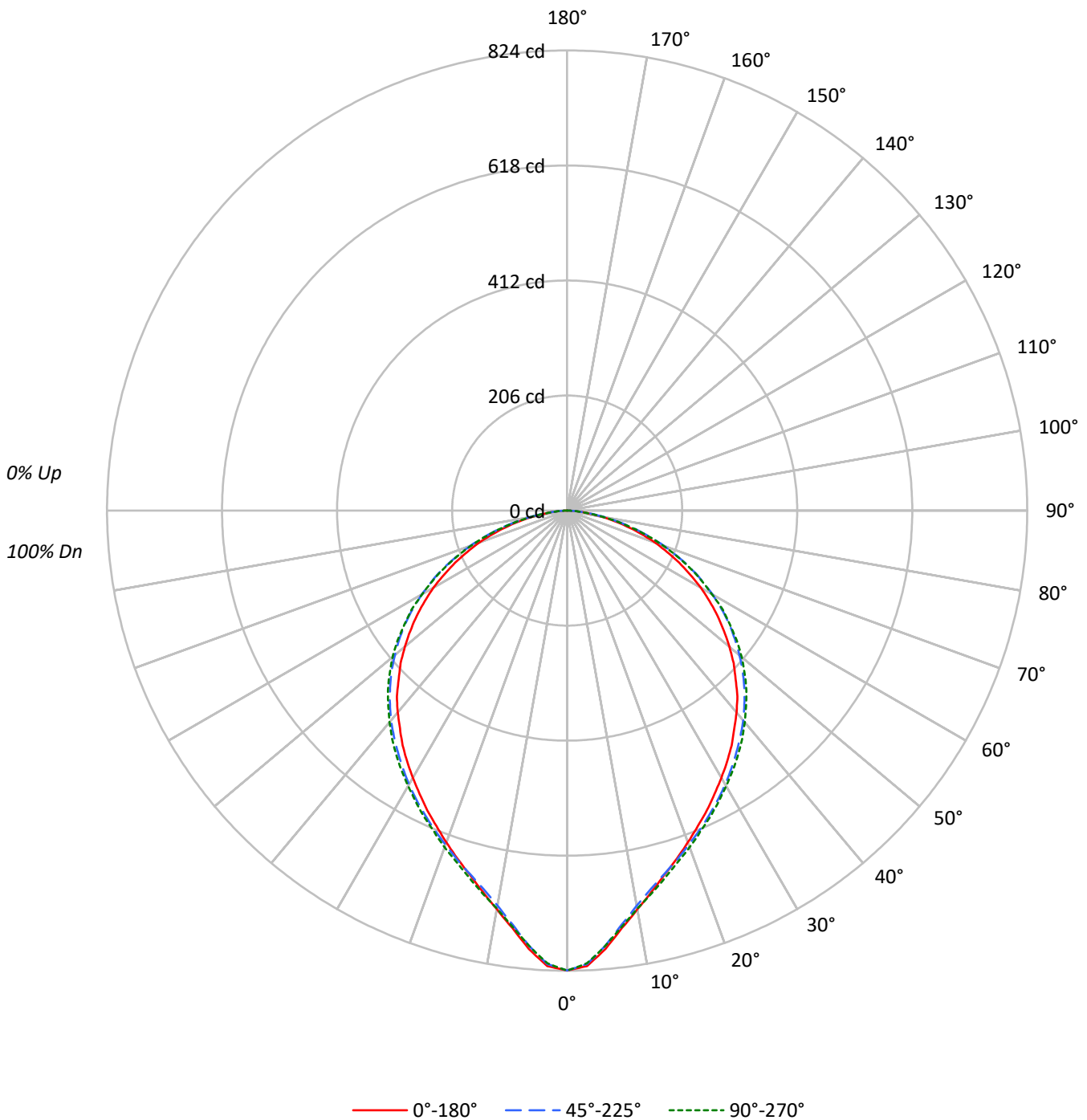
Lumens per Lamp: N/A
Luminaire Lumens: 1912.9 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
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°	2216	2216	2216
5°	2128	2113	2113
10°	1981	1962	1978
15°	1879	1876	1894
20°	1810	1823	1837
25°	1758	1787	1798
30°	1716	1758	1769
35°	1687	1736	1754
40°	1657	1724	1738
45°	1623	1707	1727
50°	1587	1686	1708
55°	1543	1661	1668
60°	1488	1616	1612
65°	1410	1554	1543
70°	1316	1449	1431
75°	1161	1284	1271
80°	944	1046	995
85°	655	667	642



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.8	3.8
10°-20°	190.6	10.0
20°-30°	277.2	14.5
30°-40°	329.8	17.2
40°-50°	342.5	17.9
50°-60°	310.3	16.2
60°-70°	234.1	12.2
70°-80°	127.6	6.7
80°-90°	28.0	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°	540.6	28.3
0°-40°	870.4	45.5
0°-60°	1523.1	79.6
0°-90°	1912.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1912.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	824	824	824	824	824	
5°	788	786	782	782	782	73
15°	674	673	673	678	680	190
25°	592	597	602	607	605	273
35°	513	520	528	536	534	321
45°	426	434	449	454	454	330
55°	329	337	354	357	356	294
65°	221	228	244	244	242	219
75°	112	116	124	124	122	119
85°	21	21	22	21	21	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	823.5	823.5	823.5	823.5	823.5
2.5°	816.3	815.5	812.8	811.8	811.6
5°	787.7	785.9	782.2	781.8	782.2
7.5°	753.6	751.5	747.8	749.2	751.1
10°	724.8	719.6	718.2	720.2	723.7
12.5°	699.0	694.9	693.7	699.0	701.5
15°	674.5	672.9	673.3	677.8	679.9
17.5°	653.4	652.3	655.0	658.5	659.5
20°	632.2	634.2	636.7	640.4	641.6
22.5°	611.4	615.3	619.4	624.3	622.7
25°	592.2	597.2	601.9	606.8	605.4
27.5°	571.9	577.6	584.2	589.6	587.5
30°	552.3	559.5	565.9	572.5	569.4
32.5°	533.0	539.8	547.4	555.4	551.9
35°	513.4	519.6	528.4	536.5	533.8
37.5°	491.8	499.4	509.5	516.5	514.7
40°	471.7	478.6	490.8	495.3	494.9
42.5°	451.3	457.0	469.8	474.9	474.1
45°	426.4	434.0	448.6	453.5	453.9
47.5°	404.4	410.7	426.4	430.3	431.1
50°	379.0	387.1	402.7	407.4	408.1
52.5°	354.1	362.8	378.8	382.1	382.8
55°	328.8	336.6	354.1	356.6	355.6
57.5°	302.3	311.8	327.8	329.0	330.1
60°	276.4	284.6	300.2	301.9	299.6
62.5°	248.2	256.6	272.7	273.1	271.2
65°	221.4	227.8	244.0	243.6	242.4
67.5°	193.4	201.2	213.2	213.6	212.6
70°	167.3	172.6	184.2	184.4	181.9
72.5°	139.1	144.9	154.1	152.9	152.3
75°	111.7	116.3	123.5	124.3	122.2
77.5°	86.6	89.9	95.3	94.7	92.4
80°	60.9	63.6	67.5	66.7	64.2
82.5°	38.9	40.5	43.0	42.0	40.9
85°	21.2	21.4	21.6	21.4	20.8
87.5°	7.8	8.0	8.0	7.8	7.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)