

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: P489264

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-2LO-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: P489264
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-27-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

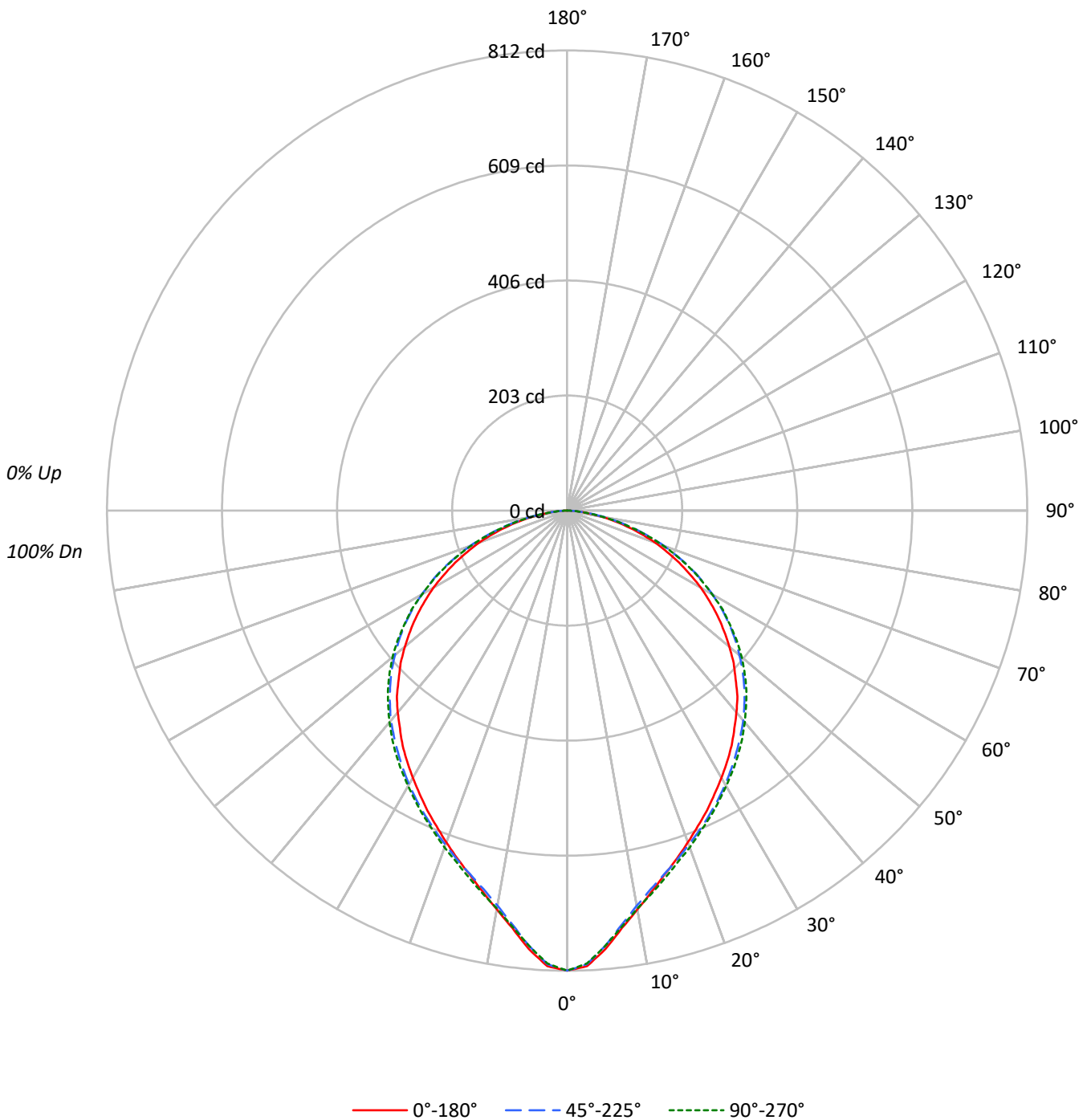
Lumens per Lamp: N/A
Luminaire Lumens: 1885.3 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.23
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	2184	2184	2184
5°	2097	2082	2082
10°	1952	1934	1949
15°	1852	1849	1867
20°	1784	1797	1811
25°	1733	1761	1772
30°	1691	1733	1744
35°	1662	1711	1728
40°	1633	1699	1714
45°	1599	1682	1703
50°	1564	1662	1684
55°	1521	1637	1644
60°	1466	1593	1589
65°	1389	1531	1521
70°	1297	1428	1411
75°	1145	1265	1253
80°	930	1031	981
85°	645	658	633



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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°	337.5	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°	857.8	45.5
0°-60°	1501.2	79.6
0°-90°	1885.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1885.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	812	812	812	812	812	
5°	776	774	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°	804.5	803.7	801.1	800.1	799.9
5°	776.4	774.5	770.9	770.5	770.9
7.5°	742.7	740.7	737.0	738.4	740.3
10°	714.3	709.2	707.8	709.8	713.3
12.5°	688.9	684.9	683.7	688.9	691.4
15°	664.8	663.2	663.6	668.1	670.1
17.5°	643.9	642.9	645.5	649.0	650.0
20°	623.0	625.1	627.5	631.2	632.4
22.5°	602.6	606.4	610.5	615.3	613.7
25°	583.7	588.6	593.2	598.1	596.7
27.5°	563.6	569.3	575.8	581.1	579.0
30°	544.3	551.4	557.7	564.2	561.2
32.5°	525.3	532.0	539.5	547.4	543.9
35°	506.0	512.1	520.8	528.7	526.1
37.5°	484.7	492.2	502.2	509.0	507.2
40°	464.8	471.7	483.7	488.2	487.8
42.5°	444.8	450.5	463.0	468.1	467.3
45°	420.2	427.7	442.1	447.0	447.4
47.5°	398.5	404.8	420.2	424.1	424.9
50°	373.6	381.5	396.9	401.6	402.2
52.5°	349.0	357.5	373.4	376.6	377.2
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	198.3	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)