

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: P489298

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-3LO-20-120-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: P489298
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-LD4-3LO-20-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

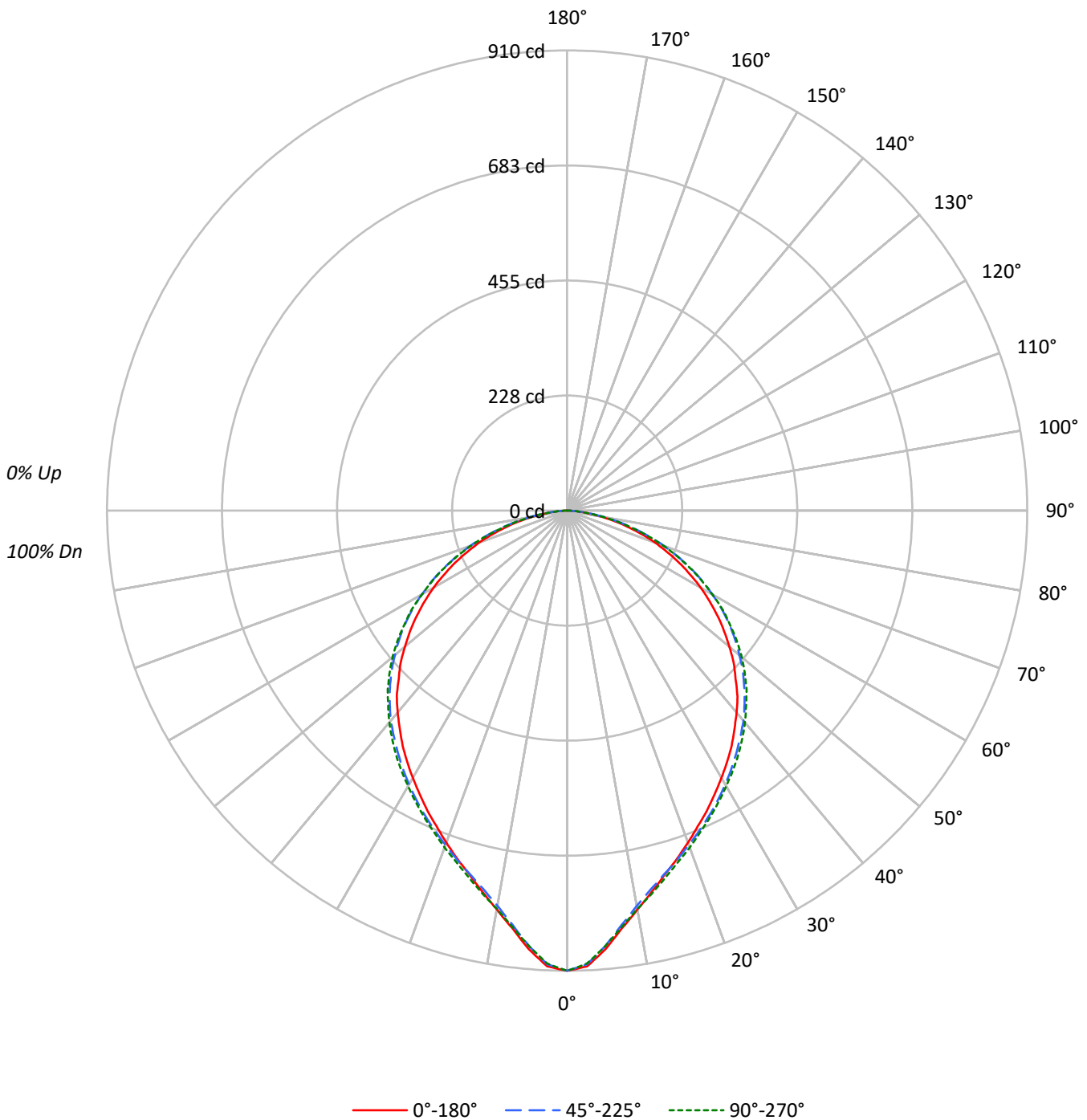
Lumens per Lamp: N/A
Luminaire Lumens: 2113.8 lumens
Efficiency: N/A
Efficacy: 60.2 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
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°	2449	2449	2449
5°	2351	2335	2335
10°	2188	2169	2185
15°	2077	2073	2093
20°	2000	2015	2030
25°	1943	1975	1986
30°	1896	1943	1955
35°	1864	1918	1938
40°	1831	1905	1921
45°	1793	1886	1909
50°	1754	1863	1888
55°	1705	1836	1843
60°	1644	1786	1782
65°	1558	1717	1706
70°	1455	1601	1581
75°	1284	1418	1405
80°	1043	1156	1099
85°	722	738	710



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.4	3.8
10°-20°	210.6	10.0
20°-30°	306.3	14.5
30°-40°	364.5	17.2
40°-50°	378.5	17.9
50°-60°	342.9	16.2
60°-70°	258.7	12.2
70°-80°	141.0	6.7
80°-90°	31.0	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°	597.3	28.3
0°-40°	961.8	45.5
0°-60°	1683.1	79.6
0°-90°	2113.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2113.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	910	910	910	910	910	
5°	870	868	864	864	864	81
15°	745	744	744	749	751	210
25°	654	660	665	671	669	302
35°	567	574	584	593	590	355
45°	471	480	496	501	502	364
55°	363	372	391	394	393	324
65°	245	252	270	269	268	242
75°	124	128	136	137	135	132
85°	23	24	24	24	23	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	910.0	910.0	910.0	910.0	910.0
2.5°	902.1	901.2	898.2	897.1	896.8
5°	870.5	868.4	864.3	863.9	864.3
7.5°	832.7	830.4	826.3	827.9	830.0
10°	800.9	795.2	793.6	795.9	799.7
12.5°	772.4	767.9	766.5	772.4	775.2
15°	745.4	743.6	744.0	749.0	751.3
17.5°	722.0	720.8	723.8	727.7	728.8
20°	698.5	700.8	703.6	707.7	709.0
22.5°	675.6	679.9	684.5	689.9	688.1
25°	654.4	659.9	665.1	670.6	669.0
27.5°	631.9	638.3	645.6	651.5	649.2
30°	610.3	618.3	625.3	632.6	629.2
32.5°	589.0	596.5	604.9	613.7	609.9
35°	567.3	574.2	583.9	592.8	589.9
37.5°	543.5	551.9	563.0	570.7	568.7
40°	521.2	528.9	542.3	547.3	546.9
42.5°	498.7	505.0	519.1	524.8	523.9
45°	471.2	479.6	495.7	501.2	501.6
47.5°	446.8	453.9	471.2	475.5	476.4
50°	418.9	427.7	445.0	450.2	450.9
52.5°	391.3	400.9	418.6	422.3	423.0
55°	363.4	372.0	391.3	394.1	392.9
57.5°	334.0	344.5	362.2	363.6	364.7
60°	305.4	314.5	331.8	333.6	331.1
62.5°	274.2	283.6	301.3	301.7	299.7
65°	244.7	251.7	269.7	269.2	267.9
67.5°	213.7	222.4	235.6	236.0	234.9
70°	184.9	190.8	203.5	203.7	201.0
72.5°	153.7	160.1	170.3	169.0	168.3
75°	123.5	128.5	136.4	137.4	135.1
77.5°	95.7	99.4	105.3	104.6	102.1
80°	67.3	70.3	74.6	73.7	70.9
82.5°	43.0	44.8	47.5	46.4	45.2
85°	23.4	23.6	23.9	23.6	23.0
87.5°	8.6	8.9	8.9	8.6	8.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)