

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: P489215

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-1HI-20-120-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: P489215
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-20-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

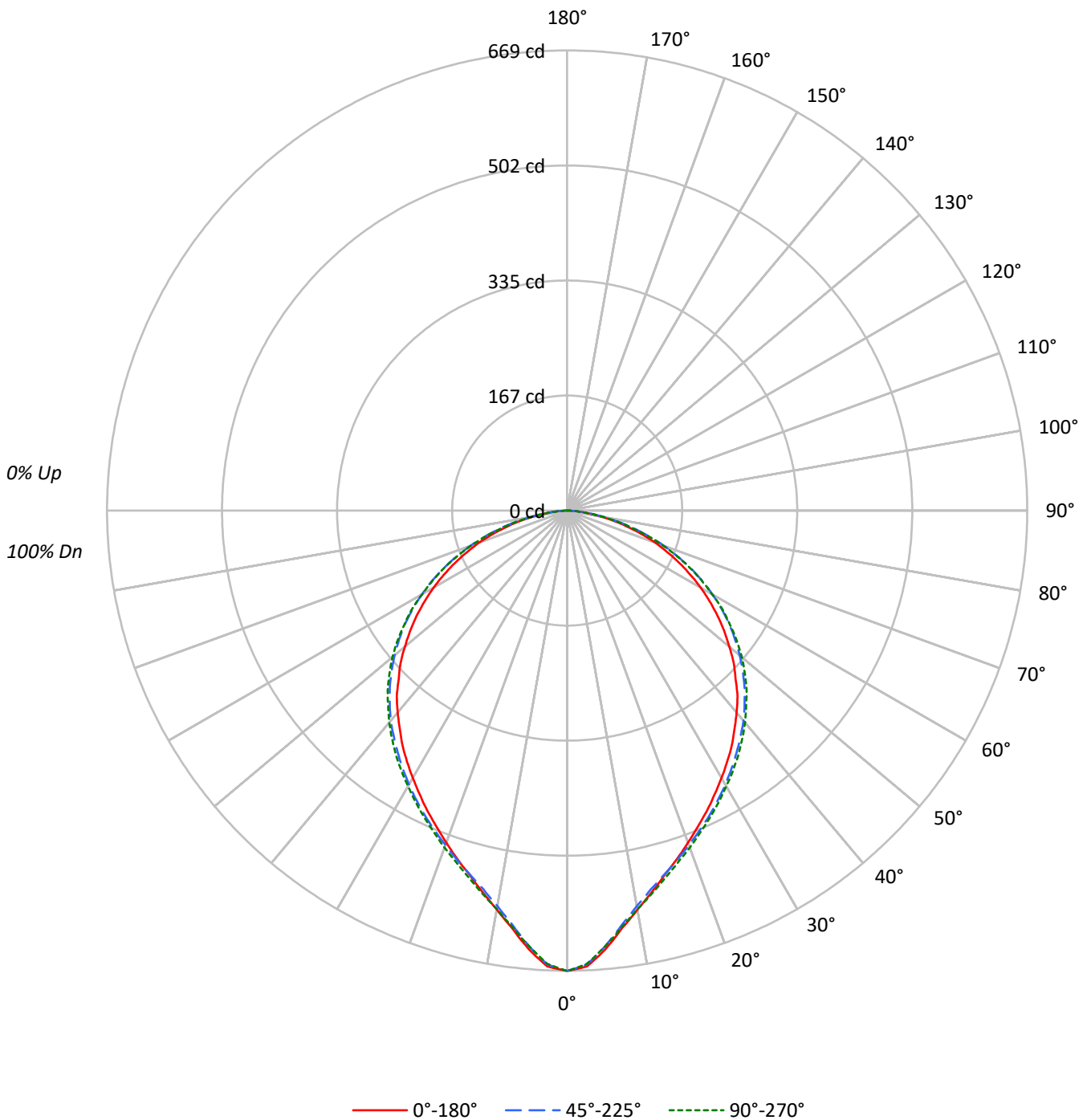
Lumens per Lamp: N/A
Luminaire Lumens: 1554.6 lumens
Efficiency: N/A
Efficacy: 72.0 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	1801	1801	1801
5°	1729	1717	1717
10°	1609	1595	1607
15°	1527	1524	1539
20°	1471	1482	1493
25°	1429	1453	1461
30°	1395	1429	1438
35°	1371	1411	1425
40°	1346	1401	1413
45°	1319	1388	1404
50°	1289	1370	1388
55°	1254	1350	1356
60°	1209	1313	1311
65°	1145	1263	1254
70°	1070	1178	1163
75°	944	1043	1032
80°	767	851	809
85°	531	543	522



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.1	3.8
10°-20°	154.9	10.0
20°-30°	225.3	14.5
30°-40°	268.1	17.2
40°-50°	278.3	17.9
50°-60°	252.2	16.2
60°-70°	190.3	12.2
70°-80°	103.7	6.7
80°-90°	22.8	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°	439.3	28.3
0°-40°	707.4	45.5
0°-60°	1237.9	79.6
0°-90°	1554.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1554.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	669	669	669	669	669	
5°	640	639	636	635	636	59
15°	548	547	547	551	552	155
25°	481	485	489	493	492	222
35°	417	422	430	436	434	261
45°	346	353	365	369	369	268
55°	267	274	288	290	289	239
65°	180	185	198	198	197	178
75°	91	94	100	101	99	97
85°	17	17	18	17	17	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	669.3	669.3	669.3	669.3	669.3
2.5°	663.4	662.8	660.6	659.7	659.6
5°	640.2	638.7	635.7	635.3	635.7
7.5°	612.4	610.7	607.7	608.9	610.4
10°	589.0	584.8	583.6	585.3	588.2
12.5°	568.1	564.8	563.7	568.1	570.1
15°	548.2	546.9	547.2	550.9	552.5
17.5°	531.0	530.1	532.3	535.2	536.0
20°	513.7	515.4	517.4	520.4	521.4
22.5°	496.9	500.0	503.4	507.4	506.1
25°	481.3	485.3	489.2	493.2	492.0
27.5°	464.7	469.4	474.8	479.1	477.5
30°	448.9	454.7	459.9	465.2	462.7
32.5°	433.1	438.7	444.8	451.4	448.5
35°	417.3	422.3	429.5	436.0	433.8
37.5°	399.7	405.9	414.1	419.8	418.3
40°	383.3	389.0	398.9	402.5	402.2
42.5°	366.7	371.4	381.8	386.0	385.3
45°	346.5	352.7	364.6	368.6	368.9
47.5°	328.6	333.8	346.5	349.7	350.4
50°	308.0	314.6	327.3	331.1	331.6
52.5°	287.8	294.8	307.9	310.6	311.1
55°	267.2	273.6	287.8	289.8	289.0
57.5°	245.7	253.4	266.4	267.4	268.2
60°	224.6	231.3	244.0	245.3	243.5
62.5°	201.7	208.5	221.6	221.9	220.4
65°	179.9	185.1	198.3	198.0	197.0
67.5°	157.2	163.5	173.3	173.6	172.8
70°	136.0	140.3	149.7	149.8	147.8
72.5°	113.1	117.7	125.3	124.3	123.8
75°	90.8	94.5	100.3	101.0	99.3
77.5°	70.4	73.1	77.4	76.9	75.1
80°	49.5	51.7	54.9	54.2	52.2
82.5°	31.6	33.0	35.0	34.1	33.3
85°	17.2	17.4	17.6	17.4	16.9
87.5°	6.4	6.5	6.5	6.4	5.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)