

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: P489302

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-3LO-30-120-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: P489302
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-30-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

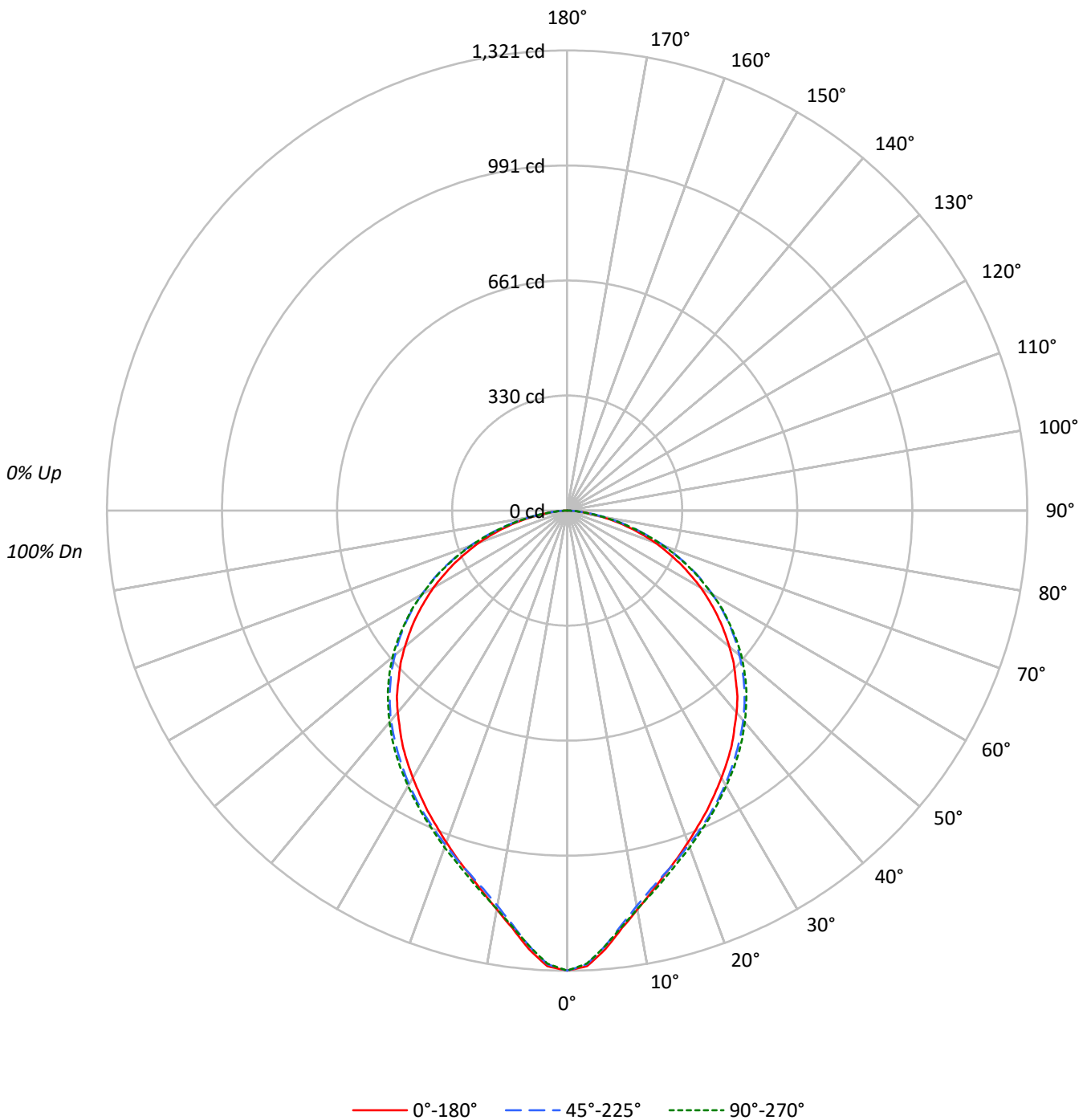
Lumens per Lamp: N/A
Luminaire Lumens: 3067.5 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	3554	3554	3554
5°	3412	3388	3388
10°	3176	3147	3171
15°	3014	3008	3037
20°	2903	2924	2946
25°	2820	2866	2882
30°	2752	2820	2837
35°	2705	2784	2812
40°	2657	2765	2788
45°	2602	2738	2770
50°	2545	2704	2740
55°	2474	2664	2675
60°	2385	2591	2586
65°	2261	2492	2475
70°	2111	2323	2295
75°	1863	2059	2038
80°	1514	1677	1595
85°	1050	1068	1028



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.7	3.8
10°-20°	305.7	10.0
20°-30°	444.5	14.5
30°-40°	528.9	17.2
40°-50°	549.2	17.9
50°-60°	497.6	16.2
60°-70°	375.5	12.2
70°-80°	204.6	6.7
80°-90°	44.9	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°	866.8	28.3
0°-40°	1395.8	45.5
0°-60°	2442.5	79.6
0°-90°	3067.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3067.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1321	1321	1321	1321	1321	
5°	1263	1260	1254	1254	1254	117
15°	1082	1079	1080	1087	1090	305
25°	950	958	965	973	971	438
35°	823	833	847	860	856	515
45°	684	696	719	727	728	529
55°	527	540	568	572	570	471
65°	355	365	391	391	389	351
75°	179	186	198	199	196	191
85°	34	34	35	34	33	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1320.6	1320.6	1320.6	1320.6	1320.6
2.5°	1309.1	1307.7	1303.4	1301.8	1301.4
5°	1263.2	1260.2	1254.3	1253.6	1254.3
7.5°	1208.4	1205.1	1199.2	1201.5	1204.5
10°	1162.2	1154.0	1151.6	1154.9	1160.6
12.5°	1120.9	1114.4	1112.4	1120.9	1124.9
15°	1081.7	1079.0	1079.7	1087.0	1090.3
17.5°	1047.7	1046.1	1050.3	1056.0	1057.6
20°	1013.7	1017.0	1021.0	1026.9	1028.9
22.5°	980.4	986.6	993.3	1001.2	998.5
25°	949.7	957.6	965.2	973.1	970.8
27.5°	917.0	926.3	936.8	945.4	942.1
30°	885.7	897.2	907.5	918.0	913.1
32.5°	854.7	865.6	877.8	890.6	885.0
35°	823.3	833.2	847.4	860.3	856.0
37.5°	788.7	800.9	817.0	828.3	825.3
40°	756.3	767.6	787.0	794.3	793.6
42.5°	723.7	732.9	753.4	761.6	760.3
45°	683.7	695.9	719.4	727.3	727.9
47.5°	648.4	658.7	683.7	690.0	691.3
50°	607.8	620.7	645.8	653.4	654.4
52.5°	567.9	581.8	607.5	612.8	613.8
55°	527.3	539.8	567.9	571.9	570.2
57.5°	484.8	499.9	525.7	527.6	529.3
60°	443.2	456.4	481.4	484.1	480.5
62.5°	398.0	411.5	437.2	437.9	434.9
65°	355.1	365.3	391.3	390.7	388.7
67.5°	310.2	322.7	341.9	342.5	340.9
70°	268.3	276.9	295.3	295.7	291.7
72.5°	223.1	232.3	247.1	245.2	244.2
75°	179.2	186.4	198.0	199.3	196.0
77.5°	138.9	144.2	152.8	151.8	148.2
80°	97.7	102.0	108.2	106.9	102.9
82.5°	62.4	65.0	69.0	67.3	65.7
85°	34.0	34.3	34.6	34.3	33.3
87.5°	12.5	12.9	12.9	12.5	11.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)