

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: P489284

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-2STD-50-120-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: P489284
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-LD4-2STD-50-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

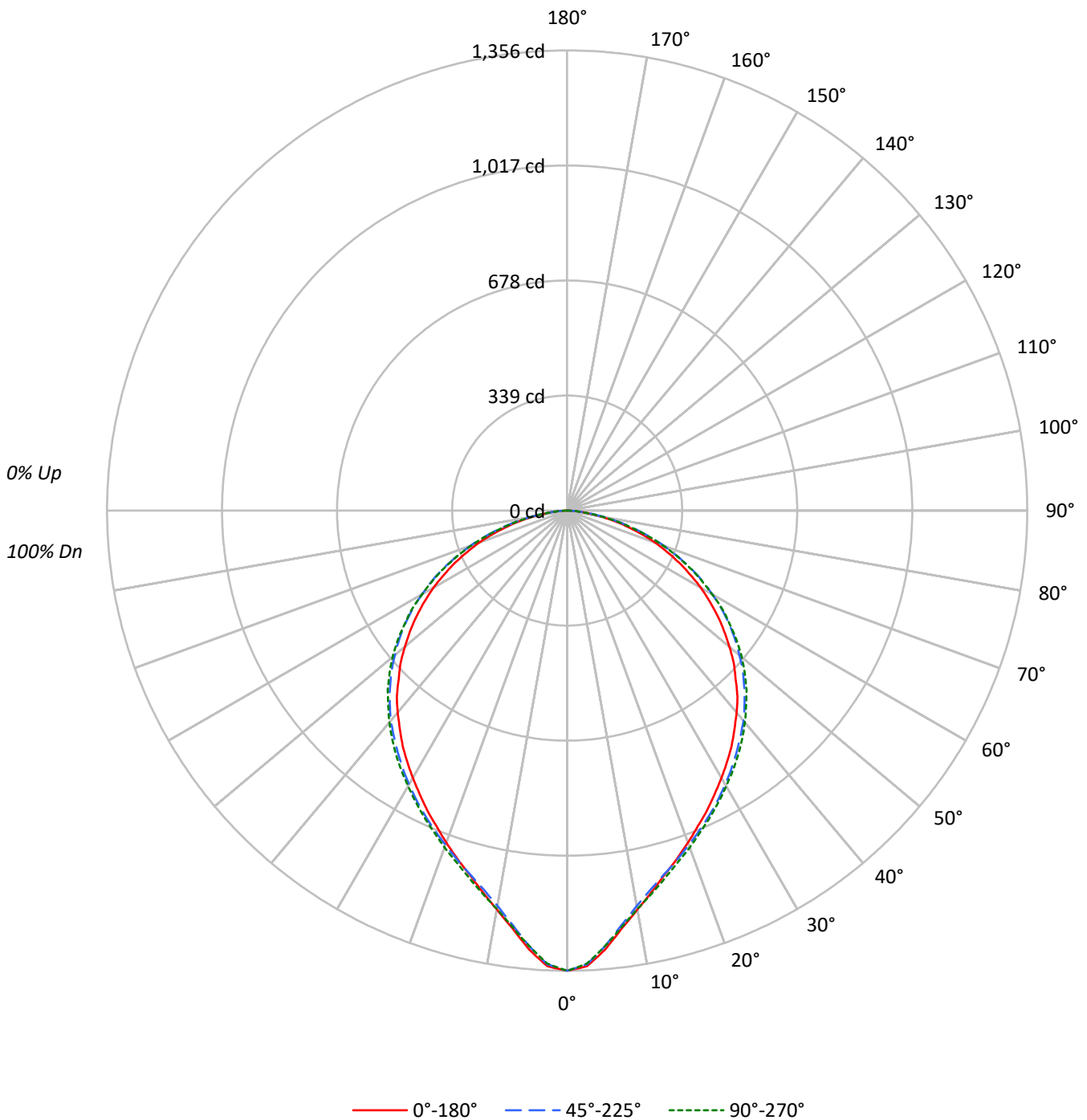
Lumens per Lamp: N/A
Luminaire Lumens: 3149.5 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
Input Voltage (V): NR
Input Current (A_{in}): 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

TEST NUMBER: P489284

CATALOG NUMBER: CLM-24-2-INS-P12125-LD4-2STD-50-120-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P489284

CATALOG NUMBER: CLM-24-2-INS-P12125-LD4-2STD-50-120-EDD-90

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°	3649	3649	3649
5°	3504	3479	3479
10°	3261	3231	3256
15°	3094	3088	3119
20°	2981	3002	3025
25°	2895	2942	2960
30°	2825	2895	2913
35°	2777	2858	2887
40°	2728	2839	2862
45°	2672	2811	2844
50°	2613	2776	2813
55°	2540	2736	2747
60°	2449	2660	2655
65°	2321	2558	2541
70°	2167	2386	2356
75°	1913	2114	2093
80°	1554	1722	1638
85°	1078	1099	1056



TEST NUMBER: P489284

CATALOG NUMBER: CLM-24-2-INS-P12125-LD4-2STD-50-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.8	3.8
10°-20°	313.8	10.0
20°-30°	456.4	14.5
30°-40°	543.1	17.2
40°-50°	563.9	17.9
50°-60°	510.9	16.2
60°-70°	385.5	12.2
70°-80°	210.0	6.7
80°-90°	46.2	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°	890.0	28.3
0°-40°	1433.1	45.5
0°-60°	2507.8	79.6
0°-90°	3149.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3149.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1356	1356	1356	1356	1356	
5°	1297	1294	1288	1287	1288	120
15°	1111	1108	1109	1116	1119	313
25°	975	983	991	999	997	449
35°	845	856	870	883	879	528
45°	702	714	739	747	747	543
55°	541	554	583	587	586	483
65°	364	375	402	401	399	360
75°	184	191	203	205	201	196
85°	35	35	36	35	34	44
90°	0	0	0	0	0	



TEST NUMBER: P489284

CATALOG NUMBER: CLM-24-2-INS-P12125-LD4-2STD-50-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1355.9	1355.9	1355.9	1355.9	1355.9
2.5°	1344.0	1342.7	1338.3	1336.6	1336.2
5°	1297.0	1293.9	1287.8	1287.1	1287.8
7.5°	1240.7	1237.3	1231.2	1233.6	1236.7
10°	1193.3	1184.8	1182.4	1185.8	1191.6
12.5°	1150.9	1144.1	1142.1	1150.9	1155.0
15°	1110.6	1107.9	1108.6	1116.0	1119.4
17.5°	1075.7	1074.0	1078.4	1084.2	1085.9
20°	1040.8	1044.2	1048.3	1054.4	1056.4
22.5°	1006.6	1013.0	1019.8	1027.9	1025.2
25°	975.1	983.2	991.0	999.1	996.8
27.5°	941.5	951.0	961.9	970.7	967.3
30°	909.3	921.2	931.7	942.6	937.5
32.5°	877.5	888.7	901.2	914.4	908.7
35°	845.3	855.5	870.1	883.3	878.9
37.5°	809.8	822.3	838.9	850.4	847.4
40°	776.6	788.1	808.1	815.5	814.8
42.5°	743.0	752.5	773.5	782.0	780.6
45°	702.0	714.5	738.6	746.7	747.4
47.5°	665.8	676.3	702.0	708.4	709.8
50°	624.1	637.3	663.1	670.8	671.9
52.5°	583.1	597.3	623.7	629.2	630.2
55°	541.4	554.3	583.1	587.2	585.5
57.5°	497.7	513.3	539.7	541.7	543.4
60°	455.0	468.6	494.3	497.0	493.3
62.5°	408.6	422.5	448.9	449.6	446.5
65°	364.5	375.1	401.8	401.1	399.1
67.5°	318.5	331.3	351.0	351.7	350.0
70°	275.4	284.3	303.2	303.6	299.5
72.5°	229.0	238.5	253.8	251.7	250.7
75°	184.0	191.4	203.3	204.6	201.3
77.5°	142.6	148.1	156.9	155.9	152.1
80°	100.3	104.7	111.1	109.8	105.7
82.5°	64.0	66.8	70.8	69.1	67.4
85°	34.9	35.2	35.6	35.2	34.2
87.5°	12.9	13.2	13.2	12.9	11.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)