

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: P489304

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-3LO-35-120-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: P489304
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-35-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

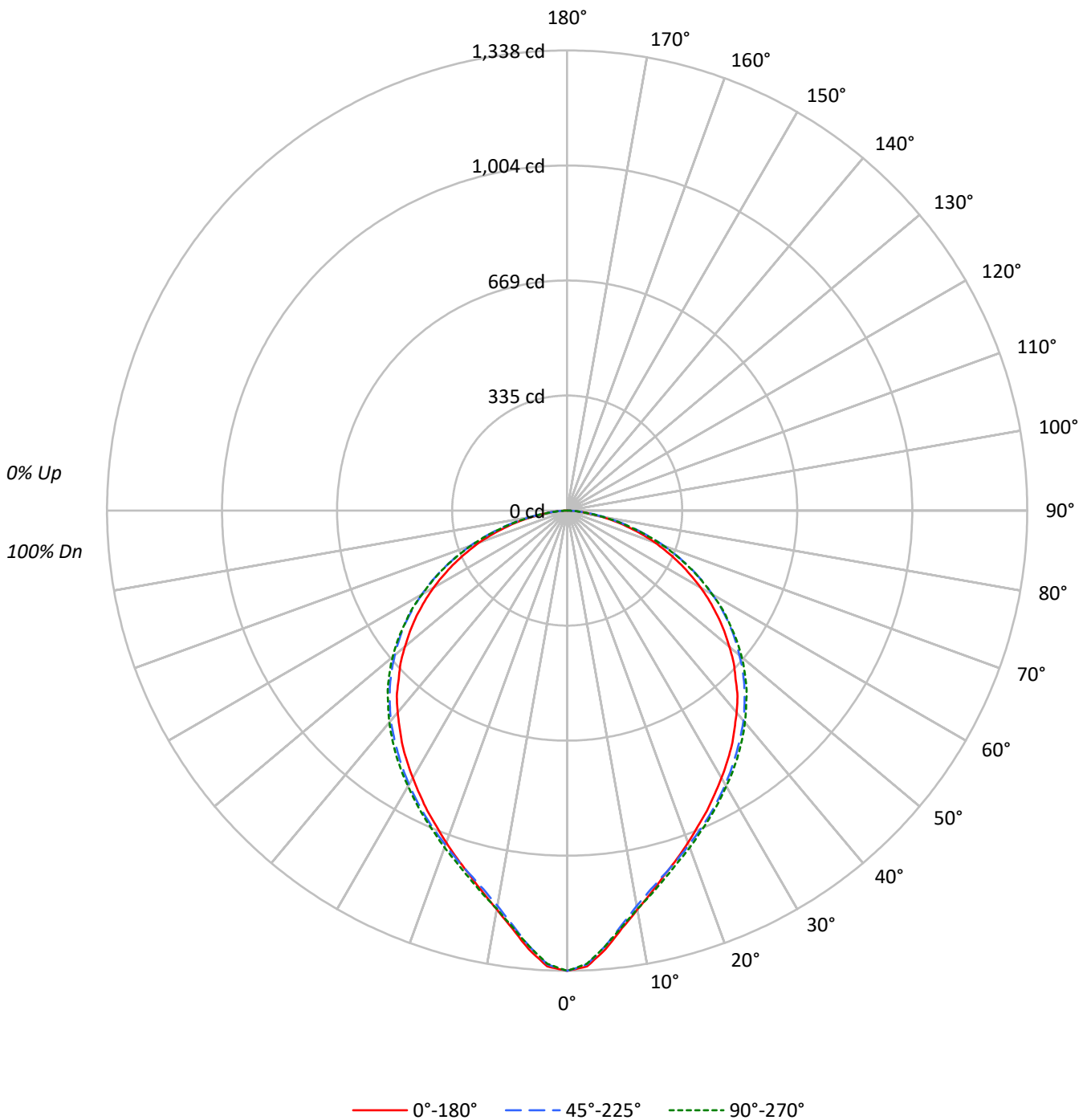
Lumens per Lamp: N/A
Luminaire Lumens: 3108.5 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.23
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P489304

CATALOG NUMBER: CLM-24-2-INS-P12125-LD4-3LO-35-120-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P489304

CATALOG NUMBER: CLM-24-2-INS-P12125-LD4-3LO-35-120-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	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					100			
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84					84			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70					70			
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59					59			
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51					51			
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44					44			
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38					38			
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34					34			
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30					30			
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27					27			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3601	3601	3601
5°	3458	3433	3433
10°	3218	3189	3214
15°	3054	3048	3078
20°	2942	2963	2986
25°	2858	2904	2921
30°	2789	2857	2875
35°	2741	2821	2849
40°	2692	2801	2825
45°	2637	2774	2807
50°	2579	2740	2776
55°	2507	2700	2711
60°	2417	2626	2620
65°	2291	2525	2508
70°	2139	2355	2326
75°	1888	2086	2065
80°	1534	1700	1616
85°	1065	1084	1044



TEST NUMBER: P489304

CATALOG NUMBER: CLM-24-2-INS-P12125-LD4-3LO-35-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.3	3.8
10°-20°	309.7	10.0
20°-30°	450.4	14.5
30°-40°	536.0	17.2
40°-50°	556.5	17.9
50°-60°	504.2	16.2
60°-70°	380.5	12.2
70°-80°	207.3	6.7
80°-90°	45.6	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°	878.4	28.3
0°-40°	1414.4	45.5
0°-60°	2475.2	79.6
0°-90°	3108.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3108.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1338	1338	1338	1338	1338	
5°	1280	1277	1271	1270	1271	119
15°	1096	1094	1094	1102	1105	309
25°	962	970	978	986	984	443
35°	834	844	859	872	867	522
45°	693	705	729	737	738	536
55°	534	547	576	580	578	477
65°	360	370	397	396	394	356
75°	182	189	201	202	199	193
85°	34	35	35	35	34	43
90°	0	0	0	0	0	



TEST NUMBER: P489304

CATALOG NUMBER: CLM-24-2-INS-P12125-LD4-3LO-35-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1338.3	1338.3	1338.3	1338.3	1338.3
2.5°	1326.5	1325.2	1320.9	1319.2	1318.8
5°	1280.1	1277.1	1271.0	1270.4	1271.0
7.5°	1224.6	1221.2	1215.2	1217.5	1220.6
10°	1177.7	1169.4	1167.0	1170.4	1176.1
12.5°	1135.9	1129.3	1127.2	1135.9	1140.0
15°	1096.1	1093.5	1094.1	1101.5	1104.8
17.5°	1061.7	1060.0	1064.4	1070.1	1071.7
20°	1027.3	1030.6	1034.6	1040.7	1042.6
22.5°	993.5	999.8	1006.5	1014.6	1011.9
25°	962.4	970.4	978.1	986.1	983.8
27.5°	929.3	938.6	949.4	958.1	954.7
30°	897.5	909.2	919.6	930.3	925.3
32.5°	866.1	877.1	889.5	902.5	896.9
35°	834.3	844.4	858.7	871.8	867.4
37.5°	799.2	811.6	828.0	839.3	836.3
40°	766.4	777.8	797.5	804.9	804.2
42.5°	733.3	742.7	763.4	771.8	770.4
45°	692.9	705.2	729.0	737.0	737.7
47.5°	657.1	667.5	692.9	699.2	700.6
50°	616.0	629.0	654.4	662.1	663.1
52.5°	575.5	589.5	615.6	621.0	622.0
55°	534.4	547.1	575.5	579.5	577.8
57.5°	491.2	506.6	532.7	534.7	536.4
60°	449.1	462.5	487.9	490.6	486.9
62.5°	403.3	417.0	443.1	443.7	440.7
65°	359.8	370.2	396.6	395.9	393.9
67.5°	314.3	327.0	346.4	347.1	345.4
70°	271.9	280.6	299.3	299.6	295.6
72.5°	226.1	235.4	250.4	248.5	247.5
75°	181.6	188.9	200.6	202.0	198.6
77.5°	140.8	146.1	154.8	153.8	150.1
80°	99.0	103.3	109.7	108.4	104.3
82.5°	63.2	65.9	69.9	68.2	66.5
85°	34.5	34.8	35.1	34.8	33.8
87.5°	12.7	13.0	13.0	12.7	11.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)