

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: P489258

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-2HI-40-120-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: P489258
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-LD4-2HI-40-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

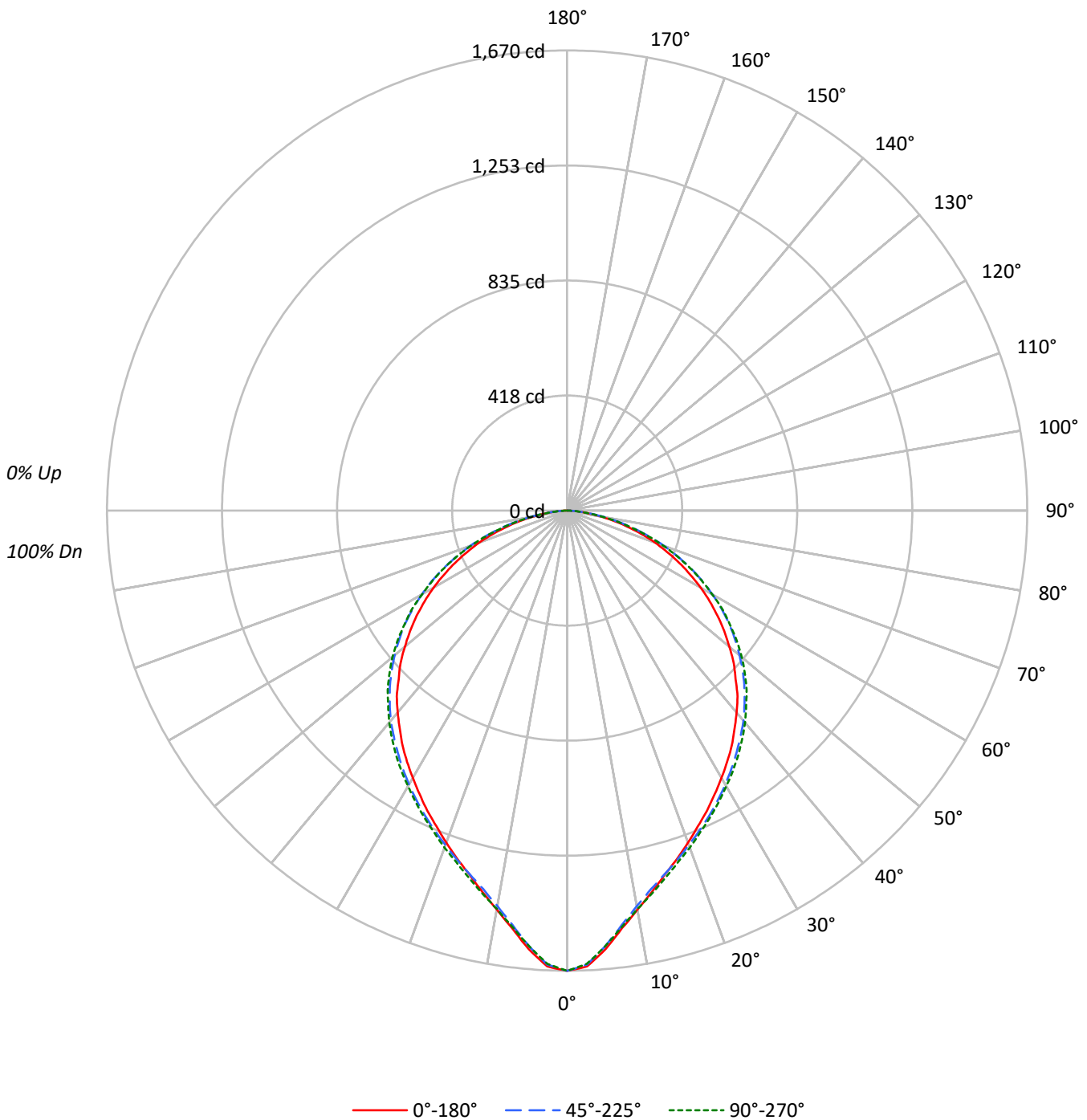
Lumens per Lamp: N/A
Luminaire Lumens: 3880.2 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
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: P489258

CATALOG NUMBER: CLM-24-2-INS-P12125-LD4-2HI-40-120-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P489258

CATALOG NUMBER: CLM-24-2-INS-P12125-LD4-2HI-40-120-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°	4495	4495	4495
5°	4316	4286	4286
10°	4017	3980	4011
15°	3812	3805	3842
20°	3672	3698	3727
25°	3567	3625	3646
30°	3481	3567	3589
35°	3421	3521	3557
40°	3361	3497	3527
45°	3291	3463	3504
50°	3219	3420	3465
55°	3129	3370	3384
60°	3017	3278	3271
65°	2860	3152	3131
70°	2670	2939	2903
75°	2357	2604	2577
80°	1914	2122	2018
85°	1328	1352	1303



TEST NUMBER: P489258

CATALOG NUMBER: CLM-24-2-INS-P12125-LD4-2HI-40-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.6	3.8
10°-20°	386.6	10.0
20°-30°	562.2	14.5
30°-40°	669.1	17.2
40°-50°	694.7	17.9
50°-60°	629.4	16.2
60°-70°	474.9	12.2
70°-80°	258.8	6.7
80°-90°	56.9	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°	1096.5	28.3
0°-40°	1765.6	45.5
0°-60°	3089.7	79.6
0°-90°	3880.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3880.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1670	1670	1670	1670	1670	
5°	1598	1594	1587	1586	1587	148
15°	1368	1365	1366	1375	1379	386
25°	1201	1211	1221	1231	1228	554
35°	1041	1054	1072	1088	1083	651
45°	865	880	910	920	921	669
55°	667	683	718	723	721	596
65°	449	462	495	494	492	444
75°	227	236	250	252	248	241
85°	43	43	44	43	42	54
90°	0	0	0	0	0	



TEST NUMBER: P489258

CATALOG NUMBER: CLM-24-2-INS-P12125-LD4-2HI-40-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1670.5	1670.5	1670.5	1670.5	1670.5
2.5°	1655.9	1654.2	1648.8	1646.7	1646.3
5°	1597.9	1594.1	1586.6	1585.8	1586.6
7.5°	1528.6	1524.4	1516.9	1519.8	1523.6
10°	1470.1	1459.7	1456.7	1460.9	1468.0
12.5°	1417.9	1409.6	1407.1	1417.9	1423.0
15°	1368.3	1364.9	1365.8	1375.0	1379.1
17.5°	1325.3	1323.2	1328.6	1335.7	1337.8
20°	1282.3	1286.5	1291.5	1299.0	1301.5
22.5°	1240.1	1248.0	1256.4	1266.4	1263.1
25°	1201.3	1211.3	1220.9	1230.9	1228.0
27.5°	1160.0	1171.7	1185.0	1195.9	1191.7
30°	1120.3	1134.9	1147.9	1161.2	1155.0
32.5°	1081.1	1094.9	1110.3	1126.6	1119.5
35°	1041.4	1054.0	1071.9	1088.2	1082.8
37.5°	997.6	1013.1	1033.5	1047.7	1044.0
40°	956.7	970.9	995.5	1004.7	1003.9
42.5°	915.4	927.1	953.0	963.4	961.7
45°	864.9	880.3	909.9	920.0	920.8
47.5°	820.2	833.2	864.9	872.8	874.5
50°	768.9	785.2	816.9	826.5	827.7
52.5°	718.4	735.9	768.5	775.1	776.4
55°	667.0	682.9	718.4	723.4	721.3
57.5°	613.2	632.4	665.0	667.4	669.5
60°	560.6	577.3	609.0	612.3	607.8
62.5°	503.4	520.5	553.1	553.9	550.1
65°	449.1	462.1	495.0	494.2	491.7
67.5°	392.4	408.2	432.4	433.3	431.2
70°	339.3	350.2	373.6	374.0	369.0
72.5°	282.2	293.9	312.6	310.1	308.9
75°	226.7	235.8	250.5	252.1	247.9
77.5°	175.7	182.4	193.3	192.0	187.4
80°	123.5	129.0	136.9	135.3	130.2
82.5°	78.9	82.2	87.2	85.2	83.1
85°	43.0	43.4	43.8	43.4	42.2
87.5°	15.9	16.3	16.3	15.9	14.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)