

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: P489286

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-3HI-20-120-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: P489286
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-LD4-3HI-20-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

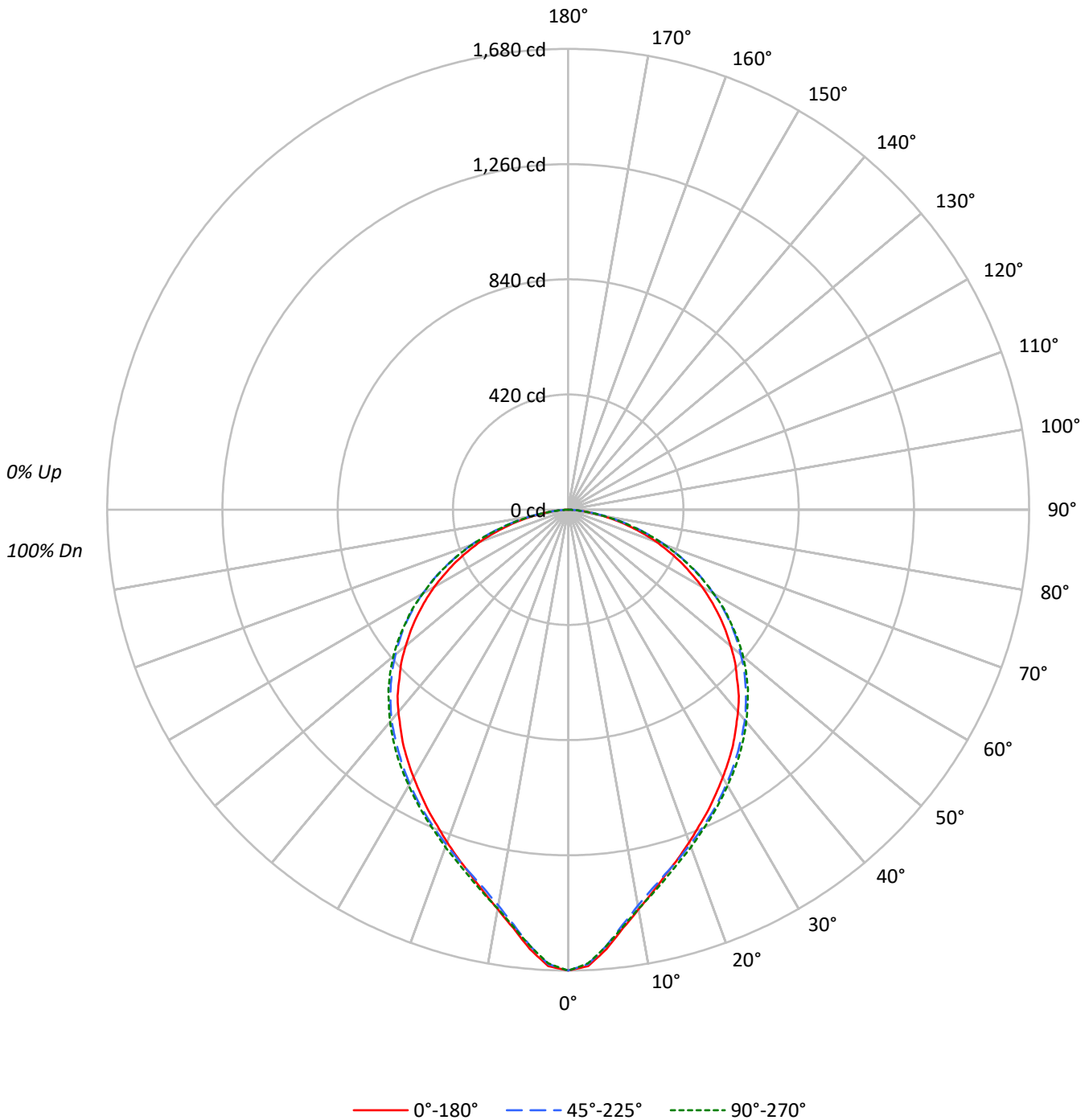
Lumens per Lamp: N/A
Luminaire Lumens: 3902.4 lumens
Efficiency: N/A
Efficacy: 60.2 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 64.8
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: P489286

CATALOG NUMBER: CLM-24-2-INS-P12125-LD4-3HI-20-120-EDD-90

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	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°	4521	4521	4521
5°	4341	4310	4310
10°	4040	4003	4034
15°	3834	3827	3864
20°	3693	3720	3748
25°	3587	3646	3667
30°	3501	3587	3609
35°	3441	3542	3577
40°	3380	3517	3547
45°	3310	3483	3524
50°	3237	3440	3485
55°	3147	3390	3403
60°	3034	3296	3289
65°	2876	3170	3149
70°	2685	2956	2920
75°	2371	2619	2593
80°	1926	2134	2030
85°	1334	1362	1309



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.5	3.8
10°-20°	388.9	10.0
20°-30°	565.5	14.5
30°-40°	672.9	17.2
40°-50°	698.7	17.9
50°-60°	633.0	16.2
60°-70°	477.6	12.2
70°-80°	260.3	6.7
80°-90°	57.2	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°	1102.8	28.3
0°-40°	1775.7	45.5
0°-60°	3107.3	79.6
0°-90°	3902.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3902.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1680	1680	1680	1680	1680	
5°	1607	1603	1596	1595	1596	149
15°	1376	1373	1374	1383	1387	388
25°	1208	1218	1228	1238	1235	557
35°	1047	1060	1078	1094	1089	655
45°	870	885	915	925	926	672
55°	671	687	722	728	725	599
65°	452	465	498	497	494	447
75°	228	237	252	254	249	243
85°	43	44	44	44	42	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1680.0	1680.0	1680.0	1680.0	1680.0
2.5°	1665.3	1663.7	1658.2	1656.1	1655.7
5°	1607.0	1603.2	1595.7	1594.8	1595.7
7.5°	1537.3	1533.1	1525.6	1528.5	1532.3
10°	1478.5	1468.0	1465.1	1469.3	1476.4
12.5°	1426.0	1417.7	1415.1	1426.0	1431.1
15°	1376.1	1372.7	1373.6	1382.8	1387.0
17.5°	1332.9	1330.8	1336.2	1343.4	1345.5
20°	1289.6	1293.8	1298.9	1306.4	1308.9
22.5°	1247.2	1255.2	1263.6	1273.7	1270.3
25°	1208.2	1218.3	1227.9	1238.0	1235.1
27.5°	1166.6	1178.4	1191.8	1202.7	1198.5
30°	1126.7	1141.4	1154.5	1167.9	1161.6
32.5°	1087.3	1101.1	1116.7	1133.0	1125.9
35°	1047.4	1060.0	1078.1	1094.4	1089.0
37.5°	1003.3	1018.9	1039.4	1053.7	1049.9
40°	962.2	976.5	1001.2	1010.5	1009.6
42.5°	920.6	932.4	958.4	968.9	967.2
45°	869.8	885.4	915.2	925.3	926.1
47.5°	824.9	837.9	869.8	877.8	879.5
50°	773.3	789.7	821.6	831.2	832.5
52.5°	722.5	740.1	772.8	779.6	780.8
55°	670.8	686.8	722.5	727.5	725.4
57.5°	616.7	636.0	668.8	671.3	673.4
60°	563.8	580.6	612.5	615.8	611.2
62.5°	506.3	523.5	556.2	557.1	553.3
65°	451.7	464.7	497.9	497.0	494.5
67.5°	394.6	410.5	434.9	435.7	433.7
70°	341.3	352.2	375.7	376.1	371.1
72.5°	283.8	295.5	314.4	311.9	310.7
75°	228.0	237.2	251.9	253.6	249.4
77.5°	176.7	183.5	194.4	193.1	188.5
80°	124.3	129.7	137.7	136.0	131.0
82.5°	79.3	82.7	87.7	85.6	83.5
85°	43.2	43.6	44.1	43.6	42.4
87.5°	16.0	16.4	16.4	16.0	14.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)