

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: P489336

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-4LO-27-120-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: P489336
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-LD4-4LO-27-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

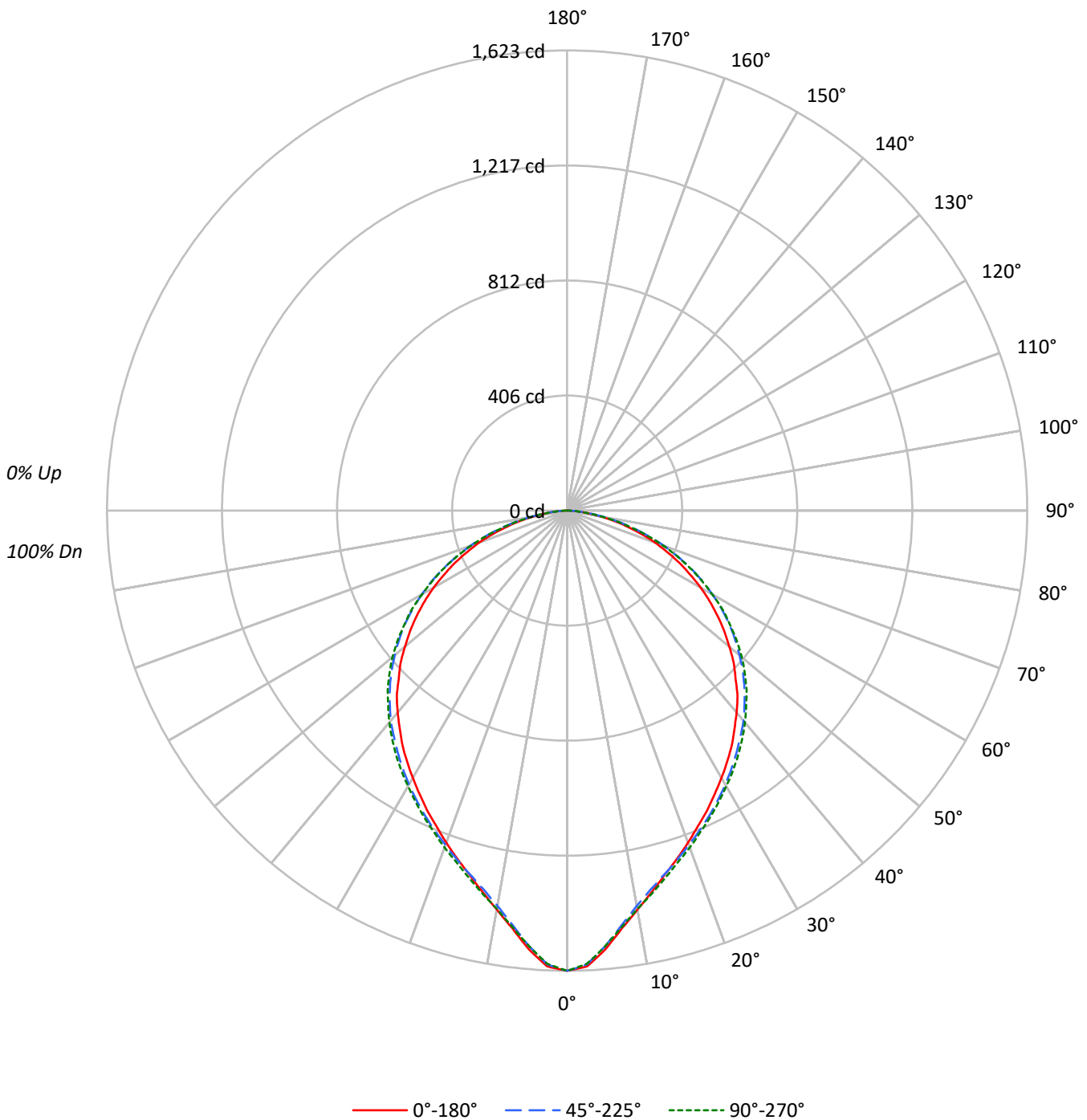
Lumens per Lamp: N/A
Luminaire Lumens: 3770.6 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 46.8
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

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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°	4368	4368	4368
5°	4194	4165	4165
10°	3904	3868	3898
15°	3704	3697	3734
20°	3568	3594	3622
25°	3466	3523	3543
30°	3383	3466	3488
35°	3324	3422	3457
40°	3266	3398	3427
45°	3199	3365	3405
50°	3128	3323	3368
55°	3041	3275	3288
60°	2932	3185	3179
65°	2779	3063	3042
70°	2595	2856	2821
75°	2290	2531	2505
80°	1861	2063	1960
85°	1291	1315	1266



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.4	3.8
10°-20°	375.7	10.0
20°-30°	546.4	14.5
30°-40°	650.2	17.2
40°-50°	675.1	17.9
50°-60°	611.6	16.2
60°-70°	461.5	12.2
70°-80°	251.5	6.7
80°-90°	55.3	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°	1065.5	28.3
0°-40°	1715.7	45.5
0°-60°	3002.4	79.6
0°-90°	3770.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3770.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1623	1623	1623	1623	1623	
5°	1553	1549	1542	1541	1542	144
15°	1330	1326	1327	1336	1340	375
25°	1167	1177	1186	1196	1193	538
35°	1012	1024	1042	1058	1052	633
45°	840	856	884	894	895	650
55°	648	664	698	703	701	579
65°	436	449	481	480	478	431
75°	220	229	243	245	241	235
85°	42	42	43	42	41	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1623.3	1623.3	1623.3	1623.3	1623.3
2.5°	1609.1	1607.5	1602.2	1600.2	1599.8
5°	1552.7	1549.1	1541.8	1541.0	1541.8
7.5°	1485.4	1481.3	1474.0	1476.9	1480.5
10°	1428.6	1418.5	1415.6	1419.7	1426.6
12.5°	1377.9	1369.8	1367.3	1377.9	1382.8
15°	1329.6	1326.4	1327.2	1336.1	1340.2
17.5°	1287.9	1285.8	1291.1	1298.0	1300.0
20°	1246.1	1250.1	1255.0	1262.3	1264.7
22.5°	1205.1	1212.8	1220.9	1230.7	1227.4
25°	1167.4	1177.1	1186.5	1196.2	1193.4
27.5°	1127.2	1138.6	1151.6	1162.1	1158.0
30°	1088.7	1102.9	1115.5	1128.4	1122.4
32.5°	1050.6	1064.0	1078.9	1094.8	1087.9
35°	1012.0	1024.2	1041.6	1057.5	1052.2
37.5°	969.4	984.4	1004.3	1018.1	1014.5
40°	929.7	943.5	967.4	976.3	975.5
42.5°	889.5	900.9	926.0	936.2	934.6
45°	840.5	855.5	884.2	894.0	894.8
47.5°	797.0	809.6	840.5	848.1	849.8
50°	747.2	763.0	793.8	803.1	804.4
52.5°	698.1	715.1	746.7	753.2	754.5
55°	648.2	663.6	698.1	703.0	700.9
57.5°	595.9	614.5	646.2	648.6	650.6
60°	544.7	561.0	591.8	595.0	590.6
62.5°	489.2	505.8	537.5	538.3	534.6
65°	436.4	449.0	481.1	480.3	477.8
67.5°	381.3	396.7	420.2	421.0	419.0
70°	329.8	340.3	363.0	363.4	358.6
72.5°	274.2	285.6	303.8	301.4	300.2
75°	220.3	229.2	243.4	245.0	240.9
77.5°	170.8	177.3	187.8	186.6	182.1
80°	120.1	125.3	133.1	131.4	126.5
82.5°	76.6	79.9	84.8	82.7	80.7
85°	41.8	42.2	42.6	42.2	41.0
87.5°	15.4	15.8	15.8	15.4	14.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)