

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: P489338

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-4LO-30-120-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: P489338
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-30-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

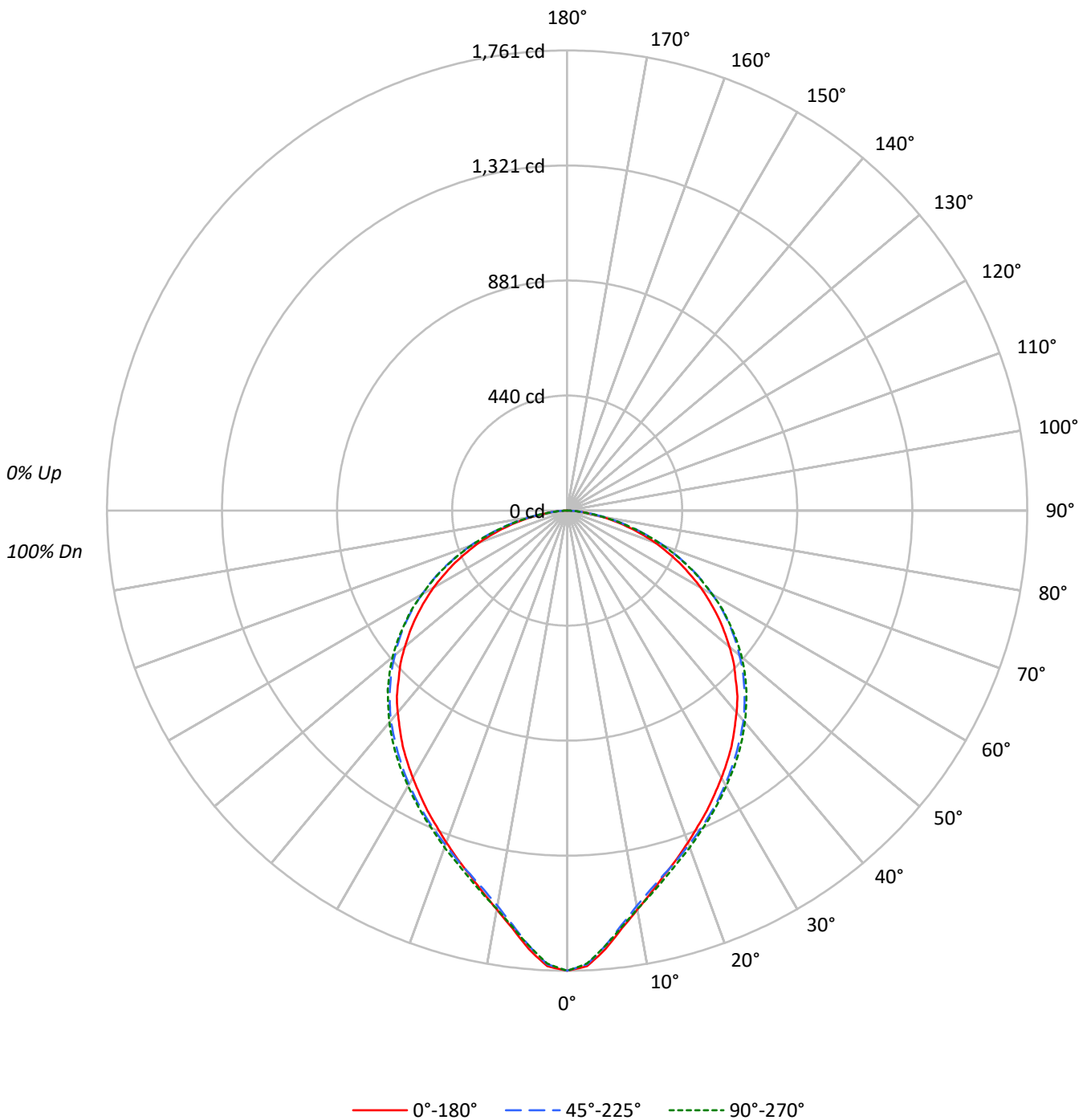
Lumens per Lamp: N/A
Luminaire Lumens: 4090.0 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	4738	4738	4738
5°	4550	4518	4518
10°	4234	4196	4228
15°	4018	4011	4050
20°	3871	3898	3929
25°	3760	3821	3843
30°	3669	3760	3783
35°	3606	3712	3749
40°	3542	3686	3717
45°	3470	3650	3694
50°	3393	3605	3653
55°	3299	3552	3567
60°	3180	3455	3448
65°	3014	3323	3300
70°	2814	3098	3061
75°	2484	2745	2717
80°	2018	2236	2128
85°	1399	1426	1371



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.6	3.8
10°-20°	407.5	10.0
20°-30°	592.6	14.5
30°-40°	705.2	17.2
40°-50°	732.3	17.9
50°-60°	663.4	16.2
60°-70°	500.6	12.2
70°-80°	272.7	6.7
80°-90°	59.9	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°	1155.8	28.3
0°-40°	1861.0	45.5
0°-60°	3256.7	79.6
0°-90°	4090.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4090.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1761	1761	1761	1761	1761	
5°	1684	1680	1672	1672	1672	156
15°	1442	1439	1440	1449	1454	407
25°	1266	1277	1287	1298	1294	584
35°	1098	1111	1130	1147	1141	686
45°	912	928	959	970	971	705
55°	703	720	757	762	760	628
65°	473	487	522	521	518	468
75°	239	249	264	266	261	254
85°	45	46	46	46	44	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1760.8	1760.8	1760.8	1760.8	1760.8
2.5°	1745.4	1743.6	1737.9	1735.7	1735.3
5°	1684.3	1680.3	1672.4	1671.5	1672.4
7.5°	1611.2	1606.8	1598.9	1602.0	1605.9
10°	1549.6	1538.6	1535.5	1539.9	1547.4
12.5°	1494.6	1485.8	1483.2	1494.6	1499.9
15°	1442.2	1438.7	1439.6	1449.3	1453.7
17.5°	1396.9	1394.7	1400.5	1407.9	1410.2
20°	1351.6	1356.0	1361.3	1369.2	1371.9
22.5°	1307.2	1315.5	1324.4	1334.9	1331.4
25°	1266.3	1276.8	1287.0	1297.5	1294.4
27.5°	1222.7	1235.0	1249.1	1260.6	1256.1
30°	1180.9	1196.3	1210.0	1224.0	1217.4
32.5°	1139.6	1154.1	1170.3	1187.5	1180.0
35°	1097.8	1111.0	1129.9	1147.0	1141.3
37.5°	1051.6	1067.8	1089.4	1104.3	1100.4
40°	1008.4	1023.4	1049.4	1059.0	1058.1
42.5°	964.9	977.2	1004.5	1015.5	1013.7
45°	911.7	927.9	959.1	969.7	970.6
47.5°	864.6	878.2	911.7	920.0	921.8
50°	810.4	827.6	861.1	871.1	872.5
52.5°	757.2	775.7	810.0	817.0	818.4
55°	703.1	719.8	757.2	762.5	760.3
57.5°	646.3	666.6	700.9	703.5	705.7
60°	590.9	608.5	641.9	645.4	640.6
62.5°	530.6	548.7	583.0	583.8	579.9
65°	473.4	487.1	521.8	520.9	518.3
67.5°	413.6	430.3	455.8	456.7	454.5
70°	357.7	369.1	393.8	394.2	389.0
72.5°	297.4	309.7	329.5	326.9	325.6
75°	238.9	248.6	264.0	265.8	261.3
77.5°	185.2	192.3	203.7	202.4	197.5
80°	130.2	135.9	144.3	142.6	137.3
82.5°	83.1	86.7	92.0	89.8	87.6
85°	45.3	45.7	46.2	45.7	44.4
87.5°	16.7	17.2	17.2	16.7	15.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)