

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: P489804

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-2LO-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: P489804
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-24-4-INS-P12125-LD4-2LO-27-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

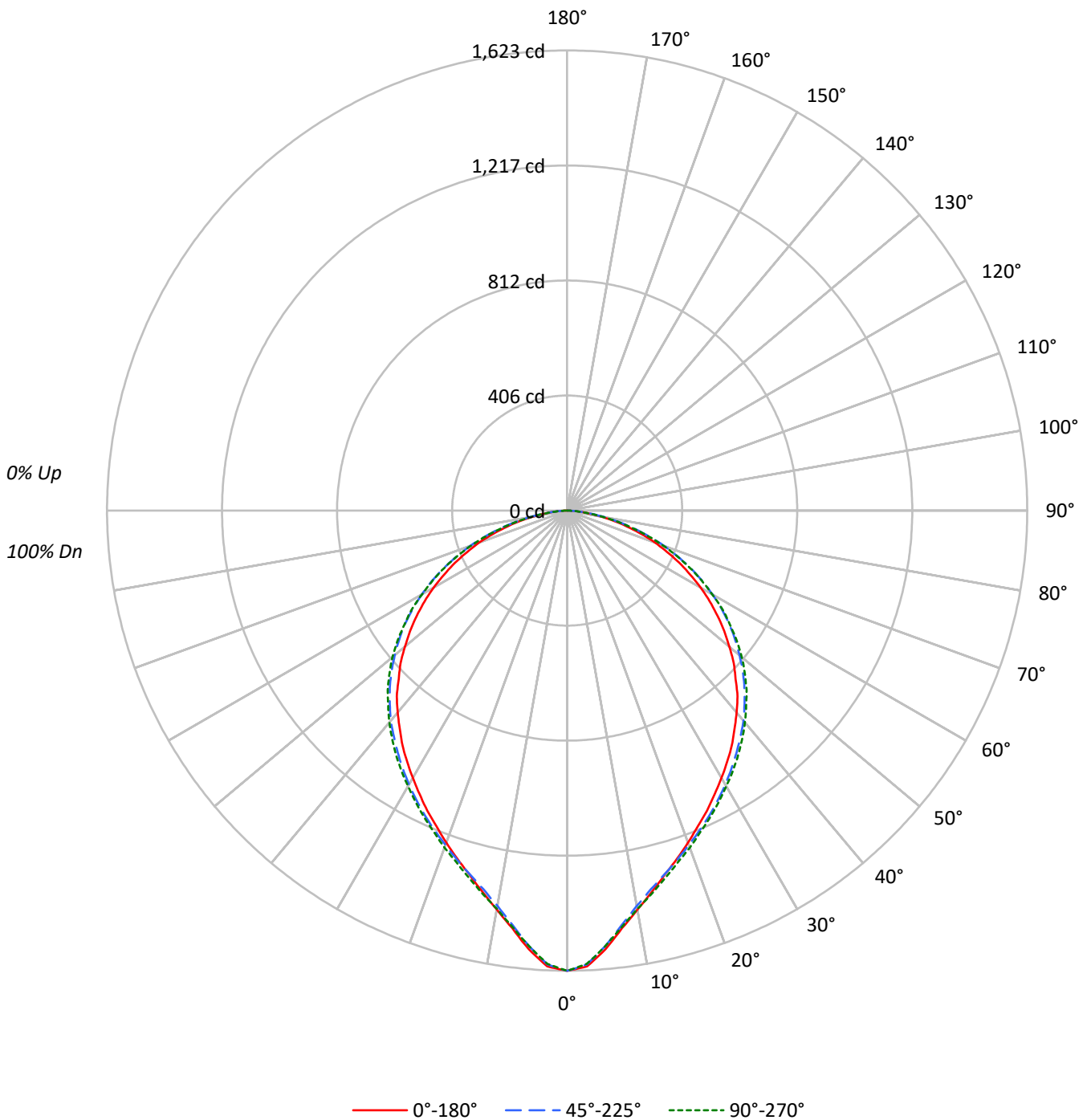
Lumens per Lamp: N/A
Luminaire Lumens: 3770.7 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2184	2184	2184
5°	2097	2082	2082
10°	1952	1934	1949
15°	1852	1849	1867
20°	1784	1797	1811
25°	1733	1761	1772
30°	1691	1733	1744
35°	1662	1711	1728
40°	1633	1699	1713
45°	1599	1683	1703
50°	1564	1662	1684
55°	1521	1638	1644
60°	1466	1593	1589
65°	1389	1532	1521
70°	1297	1428	1411
75°	1145	1265	1252
80°	931	1031	980
85°	645	658	633



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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°	1065.6	28.3
0°-40°	1715.7	45.5
0°-60°	3002.5	79.6
0°-90°	3770.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3770.7	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°	1552.8	1549.1	1541.8	1541.0	1541.8
7.5°	1485.4	1481.4	1474.1	1476.9	1480.6
10°	1428.6	1418.5	1415.6	1419.7	1426.6
12.5°	1377.9	1369.8	1367.4	1377.9	1382.8
15°	1329.6	1326.4	1327.2	1336.2	1340.2
17.5°	1287.9	1285.9	1291.1	1298.0	1300.1
20°	1246.1	1250.2	1255.0	1262.3	1264.8
22.5°	1205.1	1212.8	1221.0	1230.7	1227.4
25°	1167.4	1177.1	1186.5	1196.2	1193.4
27.5°	1127.3	1138.6	1151.6	1162.1	1158.1
30°	1088.7	1102.9	1115.5	1128.5	1122.4
32.5°	1050.6	1064.0	1079.0	1094.8	1087.9
35°	1012.1	1024.2	1041.7	1057.5	1052.2
37.5°	969.5	984.5	1004.3	1018.1	1014.5
40°	929.7	943.5	967.4	976.4	975.5
42.5°	889.5	900.9	926.1	936.2	934.6
45°	840.5	855.5	884.3	894.0	894.8
47.5°	797.1	809.7	840.5	848.2	849.8
50°	747.2	763.0	793.8	803.1	804.4
52.5°	698.1	715.1	746.8	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	595.1	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	363.5	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	82.8	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)