

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: P489756

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-1HI-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: P489756
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-LD4-1HI-27-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

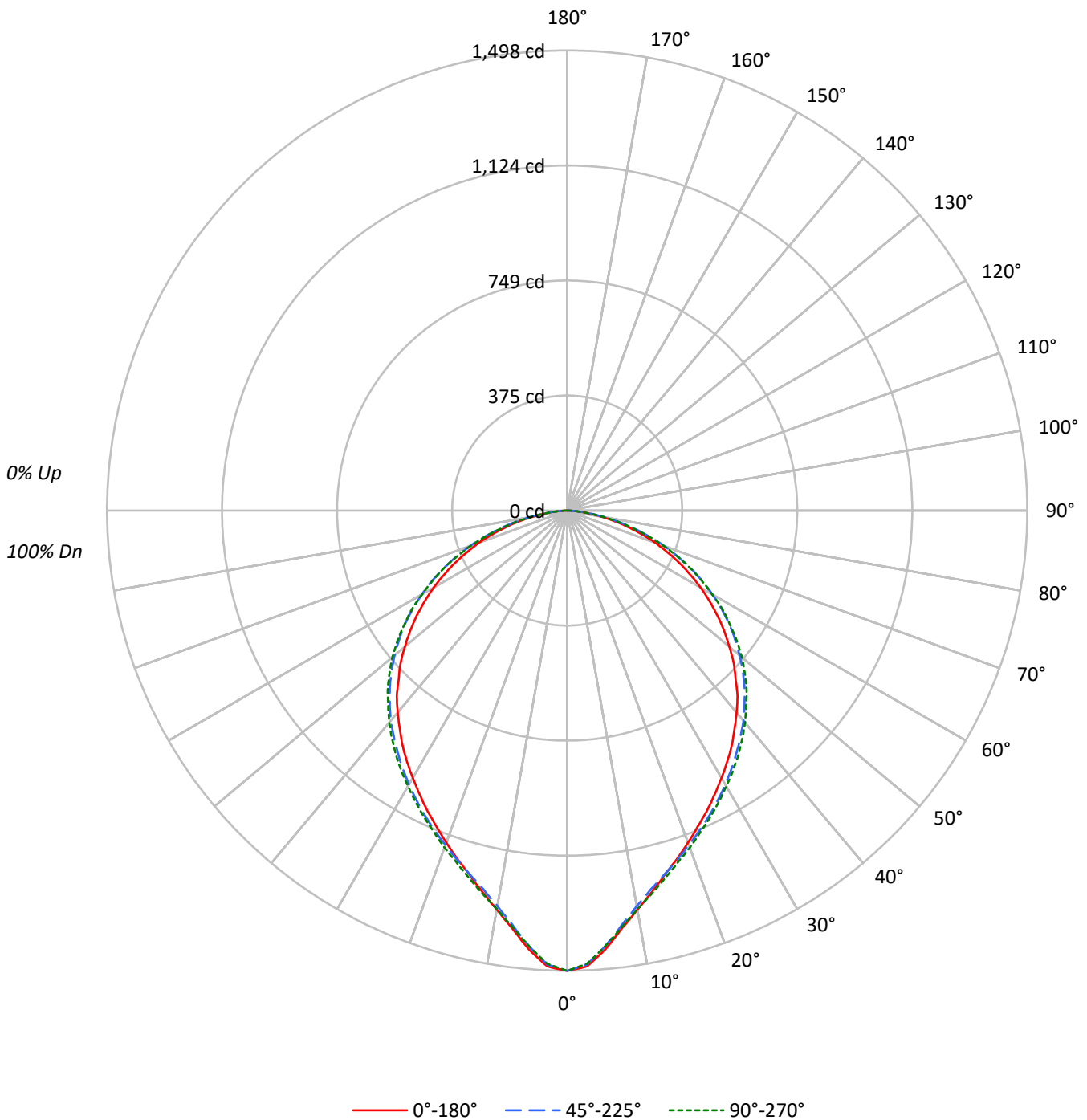
Lumens per Lamp: N/A
Luminaire Lumens: 3480.7 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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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°	2016	2016	2016
5°	1936	1922	1922
10°	1802	1785	1799
15°	1710	1707	1723
20°	1647	1659	1672
25°	1600	1626	1635
30°	1561	1600	1610
35°	1534	1579	1595
40°	1507	1568	1582
45°	1476	1553	1572
50°	1444	1534	1554
55°	1403	1512	1518
60°	1353	1470	1467
65°	1283	1414	1404
70°	1197	1318	1302
75°	1057	1168	1156
80°	859	951	905
85°	596	607	584



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.4	3.8
10°-20°	346.8	10.0
20°-30°	504.4	14.5
30°-40°	600.2	17.2
40°-50°	623.2	17.9
50°-60°	564.6	16.2
60°-70°	426.0	12.2
70°-80°	232.1	6.7
80°-90°	51.0	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°	983.6	28.3
0°-40°	1583.8	45.5
0°-60°	2771.5	79.6
0°-90°	3480.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3480.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1498	1498	1498	1498	1498	
5°	1433	1430	1423	1422	1423	133
15°	1227	1224	1225	1233	1237	346
25°	1078	1087	1095	1104	1102	497
35°	934	946	962	976	971	584
45°	776	790	816	825	826	600
55°	598	613	644	649	647	534
65°	403	414	444	443	441	398
75°	203	212	225	226	222	217
85°	39	39	39	39	38	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1498.5	1498.5	1498.5	1498.5	1498.5
2.5°	1485.4	1483.9	1479.0	1477.1	1476.8
5°	1433.3	1430.0	1423.2	1422.5	1423.2
7.5°	1371.2	1367.4	1360.7	1363.3	1366.7
10°	1318.8	1309.4	1306.8	1310.5	1316.9
12.5°	1271.9	1264.5	1262.2	1271.9	1276.5
15°	1227.4	1224.4	1225.2	1233.4	1237.1
17.5°	1188.8	1187.0	1191.8	1198.2	1200.1
20°	1150.3	1154.0	1158.5	1165.3	1167.5
22.5°	1112.5	1119.6	1127.1	1136.0	1133.0
25°	1077.6	1086.6	1095.2	1104.2	1101.6
27.5°	1040.6	1051.0	1063.0	1072.8	1069.0
30°	1005.0	1018.1	1029.7	1041.7	1036.1
32.5°	969.8	982.2	996.0	1010.6	1004.2
35°	934.2	945.5	961.6	976.2	971.3
37.5°	894.9	908.8	927.1	939.8	936.5
40°	858.2	870.9	893.0	901.3	900.5
42.5°	821.1	831.6	854.8	864.2	862.7
45°	775.8	789.7	816.3	825.3	826.0
47.5°	735.8	747.4	775.8	782.9	784.4
50°	689.7	704.3	732.8	741.4	742.5
52.5°	644.4	660.1	689.3	695.3	696.5
55°	598.3	612.6	644.4	648.9	647.0
57.5°	550.1	567.3	596.5	598.7	600.6
60°	502.9	517.8	546.3	549.3	545.2
62.5°	451.6	466.9	496.1	496.9	493.5
65°	402.9	414.5	444.1	443.3	441.1
67.5°	352.0	366.2	387.9	388.7	386.8
70°	304.4	314.1	335.1	335.5	331.0
72.5°	253.1	263.6	280.4	278.2	277.1
75°	203.3	211.6	224.7	226.2	222.4
77.5°	157.6	163.6	173.4	172.3	168.1
80°	110.8	115.7	122.8	121.3	116.8
82.5°	70.8	73.8	78.3	76.4	74.5
85°	38.6	38.9	39.3	38.9	37.8
87.5°	14.2	14.6	14.6	14.2	13.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)