

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: P489787

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-1STD-40-120-EDD**

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: P489787
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-LD4-1STD-40-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

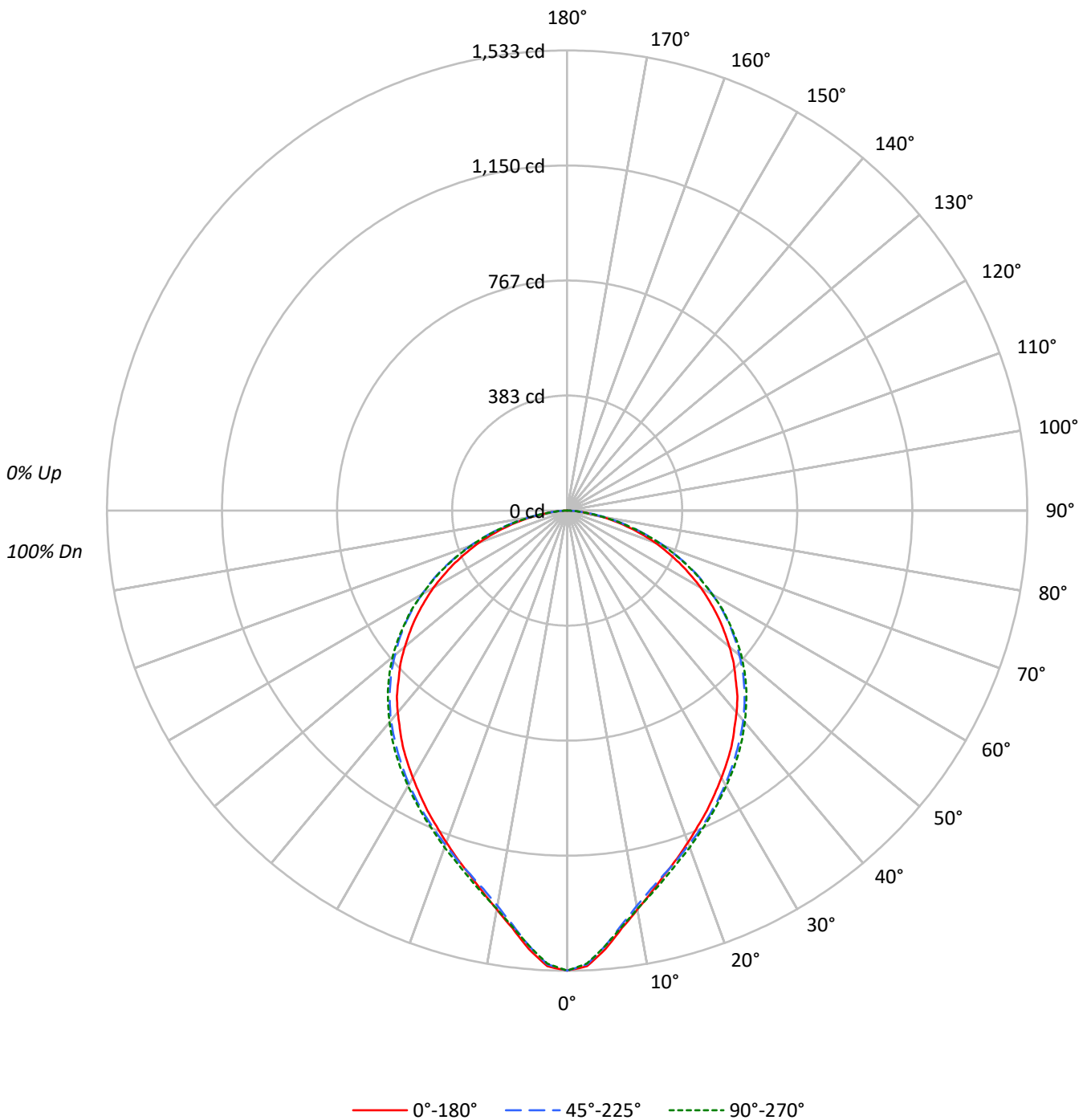
Lumens per Lamp: N/A
Luminaire Lumens: 3559.9 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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°	2062	2062	2062
5°	1980	1966	1966
10°	1843	1826	1840
15°	1749	1745	1763
20°	1684	1697	1710
25°	1636	1663	1673
30°	1597	1636	1646
35°	1569	1615	1632
40°	1542	1604	1618
45°	1510	1588	1607
50°	1477	1569	1590
55°	1436	1546	1552
60°	1384	1503	1500
65°	1312	1446	1436
70°	1225	1348	1332
75°	1081	1195	1183
80°	878	973	926
85°	610	621	597



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.4	3.8
10°-20°	354.7	10.0
20°-30°	515.8	14.5
30°-40°	613.8	17.2
40°-50°	637.4	17.9
50°-60°	577.4	16.2
60°-70°	435.7	12.2
70°-80°	237.4	6.7
80°-90°	52.2	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°	1006.0	28.3
0°-40°	1619.8	45.5
0°-60°	2834.6	79.6
0°-90°	3559.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3559.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1533	1533	1533	1533	1533	
5°	1466	1462	1456	1455	1456	136
15°	1255	1252	1253	1262	1265	354
25°	1102	1111	1120	1129	1127	508
35°	956	967	983	998	993	597
45°	794	808	835	844	845	613
55°	612	626	659	664	662	546
65°	412	424	454	453	451	407
75°	208	216	230	231	228	221
85°	40	40	40	40	39	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1532.6	1532.6	1532.6	1532.6	1532.6
2.5°	1519.2	1517.7	1512.7	1510.8	1510.4
5°	1466.0	1462.5	1455.6	1454.9	1455.6
7.5°	1402.4	1398.5	1391.7	1394.3	1397.8
10°	1348.8	1339.2	1336.5	1340.3	1346.9
12.5°	1300.9	1293.2	1290.9	1300.9	1305.5
15°	1255.3	1252.3	1253.0	1261.5	1265.3
17.5°	1215.9	1214.0	1219.0	1225.5	1227.4
20°	1176.4	1180.3	1184.9	1191.8	1194.0
22.5°	1137.8	1145.0	1152.7	1161.9	1158.8
25°	1102.2	1111.3	1120.2	1129.3	1126.7
27.5°	1064.2	1074.9	1087.2	1097.2	1093.3
30°	1027.8	1041.2	1053.1	1065.4	1059.6
32.5°	991.9	1004.5	1018.7	1033.6	1027.1
35°	955.5	967.0	983.4	998.4	993.4
37.5°	915.3	929.4	948.2	961.2	957.8
40°	877.7	890.8	913.4	921.8	921.0
42.5°	839.8	850.6	874.3	883.9	882.3
45°	793.5	807.7	834.8	844.0	844.8
47.5°	752.5	764.4	793.5	800.8	802.3
50°	705.4	720.3	749.5	758.2	759.4
52.5°	659.1	675.1	705.0	711.1	712.3
55°	612.0	626.5	659.1	663.7	661.8
57.5°	562.6	580.2	610.1	612.3	614.3
60°	514.3	529.6	558.7	561.8	557.6
62.5°	461.9	477.5	507.4	508.2	504.7
65°	412.0	423.9	454.2	453.4	451.1
67.5°	360.0	374.5	396.7	397.5	395.6
70°	311.3	321.3	342.7	343.1	338.5
72.5°	258.9	269.6	286.8	284.5	283.4
75°	207.9	216.4	229.8	231.3	227.5
77.5°	161.2	167.4	177.3	176.2	171.9
80°	113.3	118.3	125.6	124.1	119.5
82.5°	72.4	75.5	80.0	78.1	76.2
85°	39.5	39.8	40.2	39.8	38.7
87.5°	14.6	14.9	14.9	14.6	13.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)