

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: P488797

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-2LO-27-120-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: P488797
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-12-4-INS-P12125-LD4-2LO-27-120-EDD
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

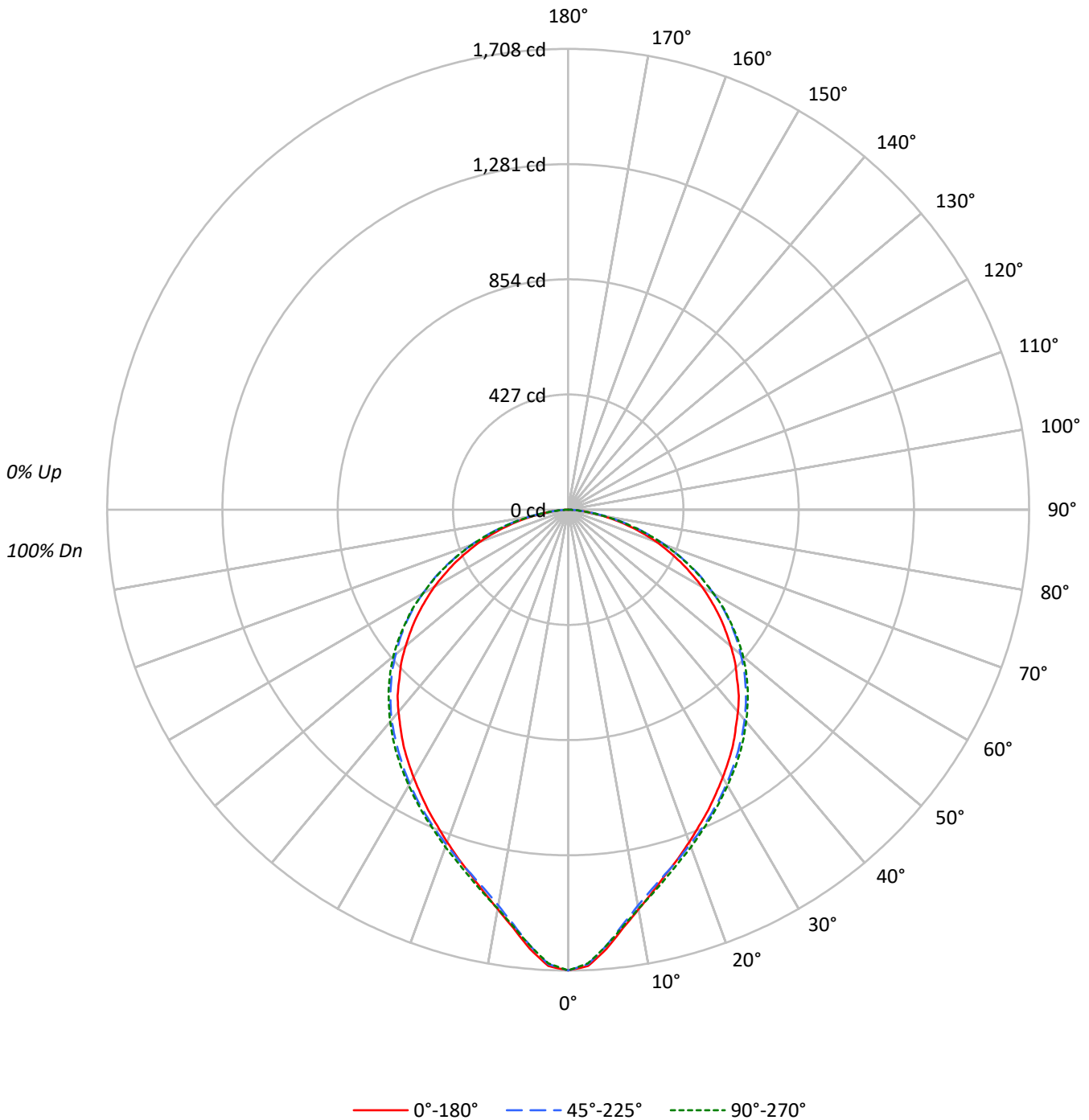
Lumens per Lamp: N/A
Luminaire Lumens: 3966.6 lumens
Efficiency: N/A
Efficacy: 84.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	4595	4595	4595
5°	4412	4381	4381
10°	4107	4069	4101
15°	3897	3890	3928
20°	3754	3781	3810
25°	3646	3706	3727
30°	3559	3646	3669
35°	3497	3600	3636
40°	3436	3575	3605
45°	3365	3540	3582
50°	3291	3496	3543
55°	3199	3445	3460
60°	3084	3351	3344
65°	2923	3223	3200
70°	2729	3005	2968
75°	2409	2662	2636
80°	1957	2170	2063
85°	1359	1383	1331



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.9	3.8
10°-20°	395.3	10.0
20°-30°	574.8	14.5
30°-40°	684.0	17.2
40°-50°	710.2	17.9
50°-60°	643.4	16.2
60°-70°	485.5	12.2
70°-80°	264.5	6.7
80°-90°	58.1	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°	1120.9	28.3
0°-40°	1804.9	45.5
0°-60°	3158.4	79.6
0°-90°	3966.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3966.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1708	1708	1708	1708	1708	
5°	1633	1630	1622	1621	1622	152
15°	1399	1395	1396	1406	1410	395
25°	1228	1238	1248	1258	1255	566
35°	1065	1077	1096	1112	1107	666
45°	884	900	930	940	941	683
55°	682	698	734	740	737	609
65°	459	472	506	505	503	454
75°	232	241	256	258	254	247
85°	44	44	45	44	43	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1707.7	1707.7	1707.7	1707.7	1707.7
2.5°	1692.7	1691.0	1685.5	1683.3	1682.9
5°	1633.4	1629.6	1621.9	1621.1	1621.9
7.5°	1562.6	1558.3	1550.7	1553.6	1557.5
10°	1502.9	1492.2	1489.2	1493.5	1500.7
12.5°	1449.5	1441.0	1438.4	1449.5	1454.7
15°	1398.7	1395.3	1396.2	1405.6	1409.8
17.5°	1354.8	1352.7	1358.2	1365.5	1367.6
20°	1310.8	1315.1	1320.2	1327.9	1330.5
22.5°	1267.8	1275.8	1284.4	1294.6	1291.2
25°	1228.1	1238.3	1248.1	1258.4	1255.4
27.5°	1185.8	1197.7	1211.4	1222.5	1218.2
30°	1145.3	1160.2	1173.4	1187.1	1180.7
32.5°	1105.2	1119.3	1135.0	1151.7	1144.4
35°	1064.6	1077.4	1095.8	1112.4	1106.9
37.5°	1019.8	1035.6	1056.5	1071.0	1067.2
40°	978.0	992.5	1017.7	1027.1	1026.2
42.5°	935.8	947.7	974.2	984.8	983.1
45°	884.1	899.9	930.2	940.5	941.3
47.5°	838.5	851.7	884.1	892.2	893.9
50°	786.0	802.6	835.1	844.9	846.2
52.5°	734.3	752.3	785.6	792.4	793.7
55°	681.9	698.1	734.3	739.5	737.4
57.5°	626.8	646.5	679.8	682.3	684.4
60°	573.0	590.1	622.6	626.0	621.3
62.5°	514.6	532.1	565.4	566.2	562.4
65°	459.1	472.4	506.1	505.2	502.6
67.5°	401.1	417.3	442.1	442.9	440.8
70°	346.9	358.0	381.9	382.3	377.2
72.5°	288.5	300.4	319.6	317.0	315.8
75°	231.7	241.1	256.0	257.7	253.5
77.5°	179.7	186.5	197.6	196.3	191.6
80°	126.3	131.8	140.0	138.3	133.1
82.5°	80.6	84.1	89.2	87.1	84.9
85°	44.0	44.4	44.8	44.4	43.1
87.5°	16.2	16.6	16.6	16.2	14.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)