

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: P488831

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-3LO-20-120-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: P488831
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-LD4-3LO-20-120-EDD
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

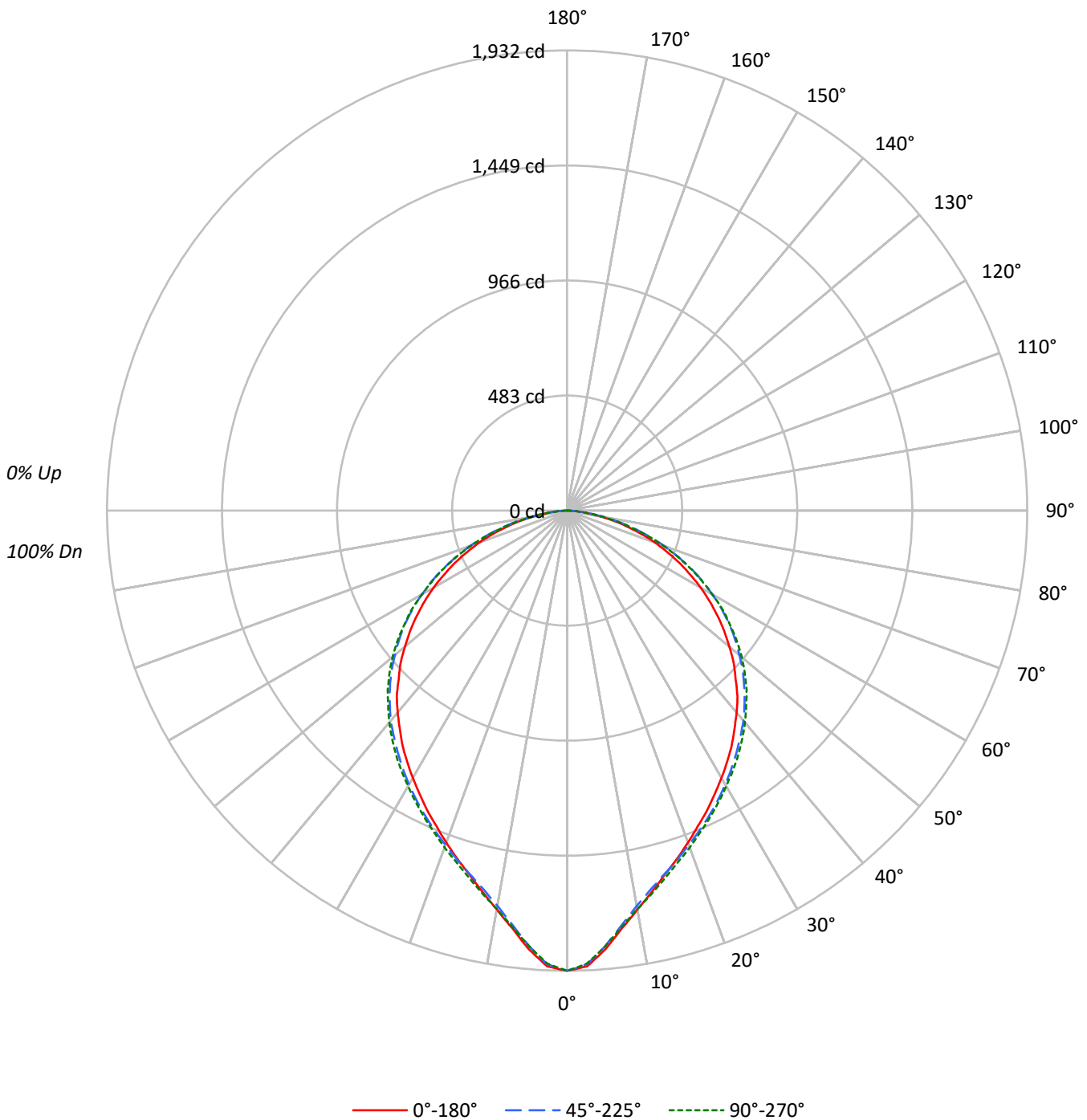
Lumens per Lamp: N/A
Luminaire Lumens: 4488.0 lumens
Efficiency: N/A
Efficacy: 63.9 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 70.2
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°	5200	5200	5200
5°	4992	4957	4957
10°	4646	4604	4640
15°	4409	4401	4444
20°	4247	4278	4311
25°	4126	4193	4217
30°	4026	4126	4151
35°	3957	4073	4114
40°	3887	4045	4079
45°	3807	4005	4053
50°	3723	3955	4008
55°	3620	3898	3914
60°	3490	3791	3784
65°	3308	3646	3621
70°	3088	3400	3358
75°	2726	3012	2982
80°	2214	2455	2334
85°	1535	1565	1507



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.7	3.8
10°-20°	447.2	10.0
20°-30°	650.3	14.5
30°-40°	773.9	17.2
40°-50°	803.5	17.9
50°-60°	728.0	16.2
60°-70°	549.3	12.2
70°-80°	299.3	6.7
80°-90°	65.8	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°	1268.3	28.3
0°-40°	2042.1	45.5
0°-60°	3573.6	79.6
0°-90°	4488.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4488.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1932	1932	1932	1932	1932	
5°	1848	1844	1835	1834	1835	172
15°	1583	1579	1580	1590	1595	447
25°	1390	1401	1412	1424	1420	640
35°	1205	1219	1240	1259	1252	753
45°	1000	1018	1052	1064	1065	773
55°	772	790	831	837	834	689
65°	520	534	573	572	569	514
75°	262	273	290	292	287	279
85°	50	50	51	50	49	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1932.2	1932.2	1932.2	1932.2	1932.2
2.5°	1915.2	1913.3	1907.0	1904.6	1904.1
5°	1848.1	1843.8	1835.1	1834.2	1835.1
7.5°	1768.0	1763.2	1754.5	1757.9	1762.2
10°	1700.4	1688.3	1684.9	1689.8	1698.0
12.5°	1640.0	1630.4	1627.5	1640.0	1645.9
15°	1582.6	1578.7	1579.7	1590.3	1595.1
17.5°	1532.9	1530.5	1536.7	1545.0	1547.4
20°	1483.1	1488.0	1493.8	1502.5	1505.4
22.5°	1434.4	1443.5	1453.2	1464.8	1460.9
25°	1389.5	1401.1	1412.2	1423.8	1420.4
27.5°	1341.7	1355.2	1370.7	1383.2	1378.4
30°	1295.8	1312.7	1327.7	1343.1	1335.9
32.5°	1250.5	1266.4	1284.2	1303.1	1294.9
35°	1204.6	1219.1	1239.8	1258.7	1252.4
37.5°	1153.9	1171.7	1195.4	1211.8	1207.5
40°	1106.6	1123.0	1151.5	1162.1	1161.1
42.5°	1058.8	1072.3	1102.2	1114.3	1112.4
45°	1000.4	1018.2	1052.5	1064.1	1065.0
47.5°	948.7	963.7	1000.4	1009.5	1011.4
50°	889.3	908.2	944.8	955.9	957.4
52.5°	830.9	851.1	888.8	896.5	898.0
55°	771.5	789.8	830.9	836.7	834.3
57.5°	709.2	731.4	769.1	772.0	774.4
60°	648.4	667.7	704.4	708.3	703.0
62.5°	582.3	602.0	639.7	640.7	636.3
65°	519.5	534.5	572.6	571.6	568.7
67.5°	453.8	472.2	500.2	501.1	498.7
70°	392.5	405.1	432.1	432.6	426.8
72.5°	326.4	339.9	361.6	358.7	357.3
75°	262.2	272.8	289.7	291.6	286.8
77.5°	203.3	211.0	223.5	222.1	216.8
80°	142.9	149.2	158.4	156.4	150.6
82.5°	91.2	95.1	100.9	98.5	96.1
85°	49.7	50.2	50.7	50.2	48.8
87.5°	18.3	18.8	18.8	18.3	16.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)