

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: P485933

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-3LO-35-120-EDD**

Issue Date: 3/1/2021

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: P485933  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35355)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/1/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: ORLG-24-2-INS-A125-LD4-3LO-35-120-EDD  
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

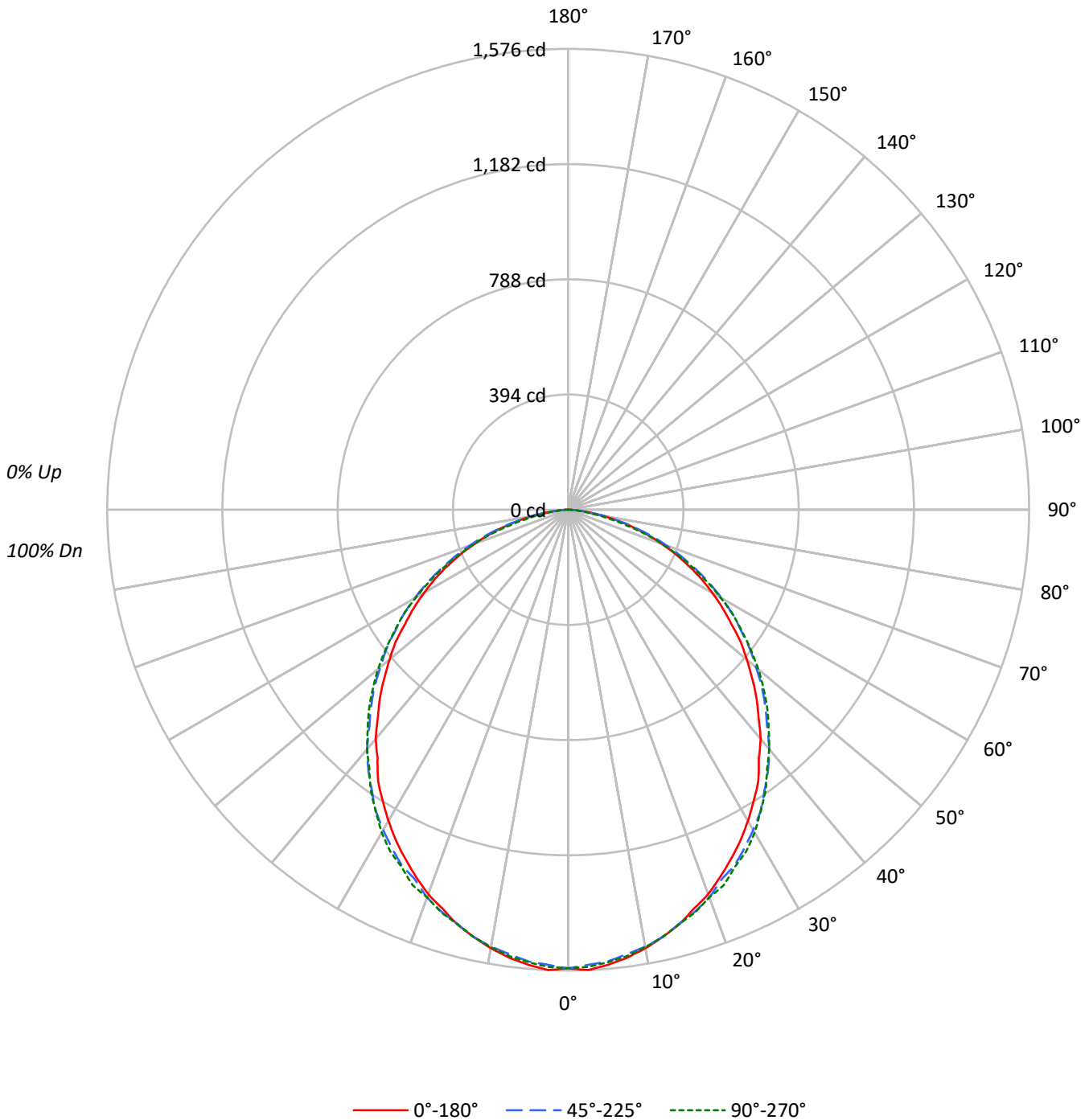
Lumens per Lamp: N/A  
Luminaire Lumens: 4028.0 lumens  
Efficiency: N/A  
Efficacy: 114.8 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 35.1  
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	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									100																			
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85									85																			
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71									71																			
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60									60																			
4	83	72	63	57	81	70	62	56	68	61	55	66	59	55	63	58	54	52									52																			
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45									45																			
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39									39																			
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35									35																			
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31									31																			
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28									28																			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26									26																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	4220	4220	4220
5°	4220	4190	4197
10°	4161	4147	4151
15°	4089	4085	4087
20°	4007	4042	4039
25°	3913	3989	4002
30°	3818	3930	3962
35°	3724	3845	3862
40°	3596	3759	3756
45°	3465	3628	3664
50°	3334	3507	3553
55°	3194	3383	3403
60°	3060	3263	3239
65°	2899	3063	3003
70°	2671	2813	2685
75°	2362	2460	2148
80°	1900	1926	1502
85°	1244	1192	874



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.4	3.7
10°-20°	414.5	10.3
20°-30°	617.1	15.3
30°-40°	726.3	18.0
40°-50°	728.2	18.1
50°-60°	638.6	15.9
60°-70°	467.0	11.6
70°-80°	240.6	6.0
80°-90°	48.3	1.2
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°	1178.9	29.3
0°-40°	1905.3	47.3
0°-60°	3272.1	81.2
0°-90°	4028.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4028.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1568	1568	1568	1568	1568	
5°	1562	1552	1551	1561	1554	148
15°	1468	1470	1466	1476	1467	413
25°	1318	1324	1344	1362	1348	607
35°	1134	1139	1170	1183	1176	706
45°	911	915	953	965	963	702
55°	681	696	721	731	725	611
65°	455	466	481	479	472	450
75°	227	229	237	220	207	241
85°	40	39	39	31	28	53
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1568.2	1568.2	1568.2	1568.2	1568.2
2.5°	1575.9	1568.2	1557.9	1566.5	1564.8
5°	1562.2	1551.9	1551.0	1561.3	1553.6
7.5°	1545.0	1543.3	1533.0	1544.2	1539.9
10°	1522.7	1521.0	1517.6	1525.3	1519.3
12.5°	1496.2	1494.5	1496.2	1500.5	1496.2
15°	1467.9	1470.4	1466.2	1475.6	1467.0
17.5°	1430.1	1432.7	1441.3	1444.7	1443.9
20°	1399.3	1401.0	1411.3	1425.0	1410.4
22.5°	1359.0	1363.3	1368.4	1393.3	1389.9
25°	1317.8	1323.8	1343.6	1362.4	1347.8
27.5°	1275.0	1281.0	1305.0	1318.7	1317.0
30°	1228.7	1234.7	1264.7	1283.5	1275.0
32.5°	1180.6	1190.9	1223.5	1239.8	1223.5
35°	1133.5	1138.6	1170.4	1183.2	1175.5
37.5°	1070.9	1090.6	1122.3	1130.9	1117.2
40°	1023.7	1024.6	1070.0	1070.0	1069.2
42.5°	962.9	976.6	1006.6	1022.9	1014.3
45°	910.6	914.8	953.4	965.4	962.9
47.5°	853.1	870.3	898.6	912.3	905.4
50°	796.5	808.5	837.7	855.7	848.8
52.5°	744.2	753.7	783.7	794.0	787.1
55°	680.8	696.2	721.1	731.4	725.4
57.5°	625.9	637.1	667.9	671.3	667.9
60°	568.5	581.3	606.2	608.8	601.9
62.5°	513.6	522.2	544.5	545.3	537.6
65°	455.3	465.6	481.0	479.3	471.6
67.5°	397.8	404.7	419.3	413.3	404.7
70°	339.5	345.5	357.5	349.0	341.2
72.5°	282.9	287.2	297.5	284.7	275.2
75°	227.2	228.9	236.6	220.4	206.6
77.5°	172.3	174.1	178.3	162.0	146.6
80°	122.6	122.6	124.3	107.2	96.9
82.5°	77.2	77.2	76.3	63.4	57.4
85°	40.3	39.4	38.6	30.9	28.3
87.5°	14.6	14.6	12.0	11.1	12.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)