

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: P486040

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-6LO-35-120-EDD-90**

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: P486040  
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-LD4-6LO-35-120-EDD-90  
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

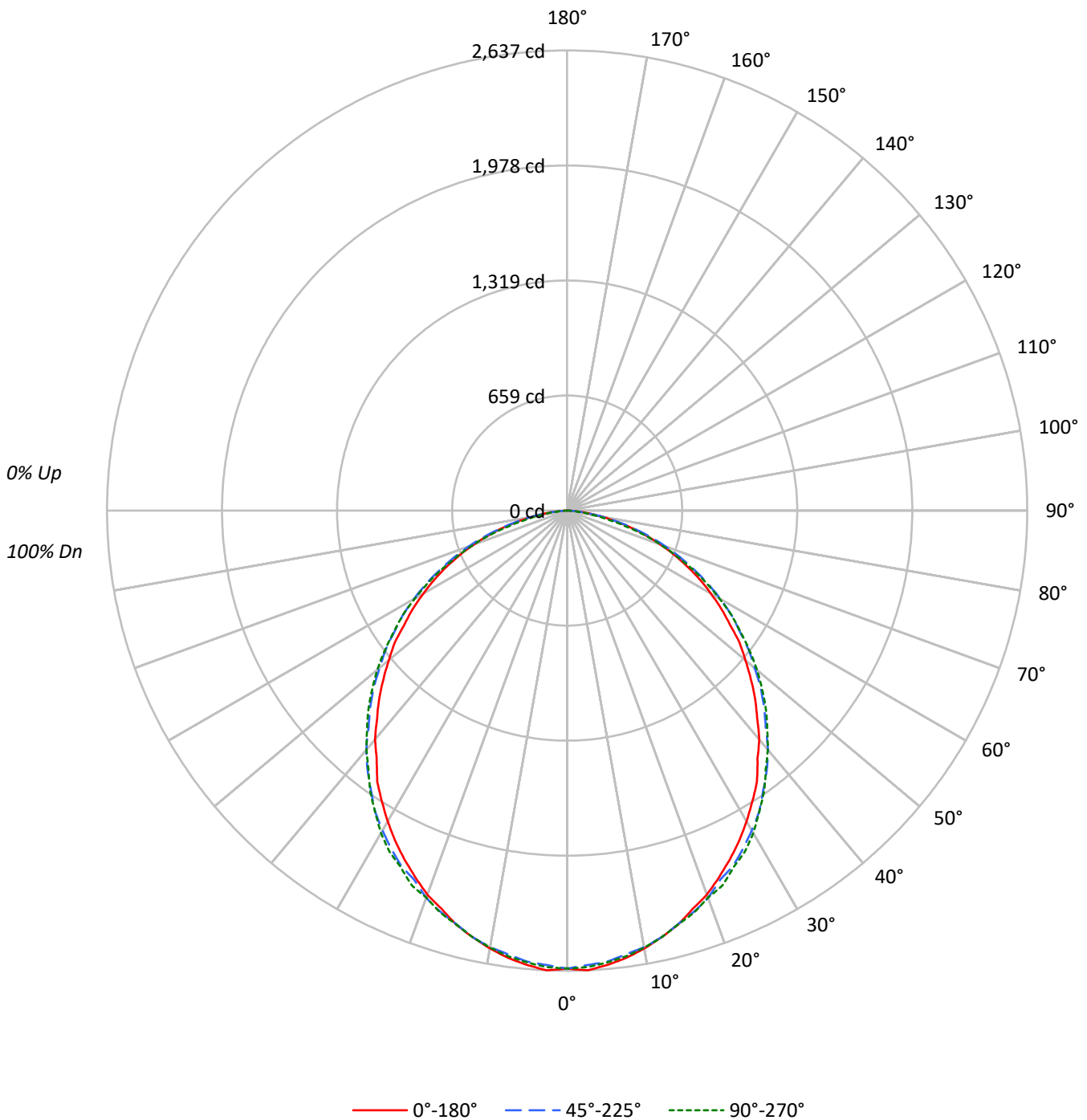
Lumens per Lamp: N/A  
Luminaire Lumens: 6740.8 lumens  
Efficiency: N/A  
Efficacy: 96.0 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

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

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

	0°	45°	90°
0°	7062	7062	7062
5°	7062	7011	7023
10°	6963	6940	6948
15°	6844	6835	6839
20°	6706	6763	6759
25°	6548	6676	6697
30°	6389	6576	6630
35°	6231	6434	6462
40°	6018	6290	6285
45°	5799	6072	6132
50°	5580	5869	5947
55°	5345	5661	5695
60°	5120	5459	5421
65°	4851	5126	5025
70°	4471	4707	4493
75°	3953	4117	3595
80°	3180	3225	2512
85°	2081	1995	1463



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	246.7	3.7
10°-20°	693.6	10.3
20°-30°	1032.7	15.3
30°-40°	1215.5	18.0
40°-50°	1218.7	18.1
50°-60°	1068.7	15.9
60°-70°	781.5	11.6
70°-80°	402.7	6.0
80°-90°	80.8	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°	1972.9	29.3
0°-40°	3188.4	47.3
0°-60°	5475.8	81.2
0°-90°	6740.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6740.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2624	2624	2624	2624	2624	
5°	2614	2597	2596	2613	2600	247
15°	2456	2461	2454	2469	2455	691
25°	2205	2215	2248	2280	2256	1016
35°	1897	1906	1959	1980	1967	1181
45°	1524	1531	1596	1616	1611	1174
55°	1139	1165	1207	1224	1214	1023
65°	762	779	805	802	789	754
75°	380	383	396	369	346	403
85°	67	66	65	52	47	88
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2624.3	2624.3	2624.3	2624.3	2624.3
2.5°	2637.3	2624.3	2607.1	2621.5	2618.6
5°	2614.3	2597.1	2595.6	2612.9	2600.0
7.5°	2585.6	2582.7	2565.5	2584.2	2577.0
10°	2548.3	2545.4	2539.7	2552.6	2542.6
12.5°	2503.8	2500.9	2503.8	2511.0	2503.8
15°	2456.5	2460.8	2453.6	2469.4	2455.0
17.5°	2393.3	2397.6	2412.0	2417.7	2416.3
20°	2341.7	2344.5	2361.8	2384.7	2360.3
22.5°	2274.2	2281.4	2290.0	2331.6	2325.9
25°	2205.4	2215.4	2248.4	2280.0	2255.6
27.5°	2133.6	2143.7	2183.8	2206.8	2203.9
30°	2056.1	2066.2	2116.4	2148.0	2133.6
32.5°	1975.8	1993.0	2047.5	2074.8	2047.5
35°	1896.9	1905.5	1958.6	1980.1	1967.2
37.5°	1792.1	1825.1	1878.2	1892.6	1869.6
40°	1713.2	1714.6	1790.7	1790.7	1789.3
42.5°	1611.3	1634.3	1684.5	1711.8	1697.4
45°	1523.8	1531.0	1595.6	1615.6	1611.3
47.5°	1427.7	1456.4	1503.7	1526.7	1515.2
50°	1333.0	1353.1	1401.9	1432.0	1420.5
52.5°	1245.5	1261.2	1311.5	1328.7	1317.2
55°	1139.3	1165.1	1206.7	1223.9	1213.9
57.5°	1047.4	1066.1	1117.7	1123.5	1117.7
60°	951.3	972.8	1014.4	1018.7	1007.3
62.5°	859.5	873.8	911.1	912.6	899.7
65°	761.9	779.1	805.0	802.1	789.2
67.5°	665.8	677.3	701.6	691.6	677.3
70°	568.2	578.2	598.3	584.0	571.1
72.5°	473.5	480.7	497.9	476.4	460.6
75°	380.2	383.1	396.0	368.8	345.8
77.5°	288.4	291.3	298.4	271.2	245.4
80°	205.2	205.2	208.1	179.4	162.1
82.5°	129.1	129.1	127.7	106.2	96.1
85°	67.4	66.0	64.6	51.7	47.4
87.5°	24.4	24.4	20.1	18.7	20.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)