

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: P487198

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-2STD-20-120-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: P487198
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-24-4-INS-A125-LD4-2STD-20-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

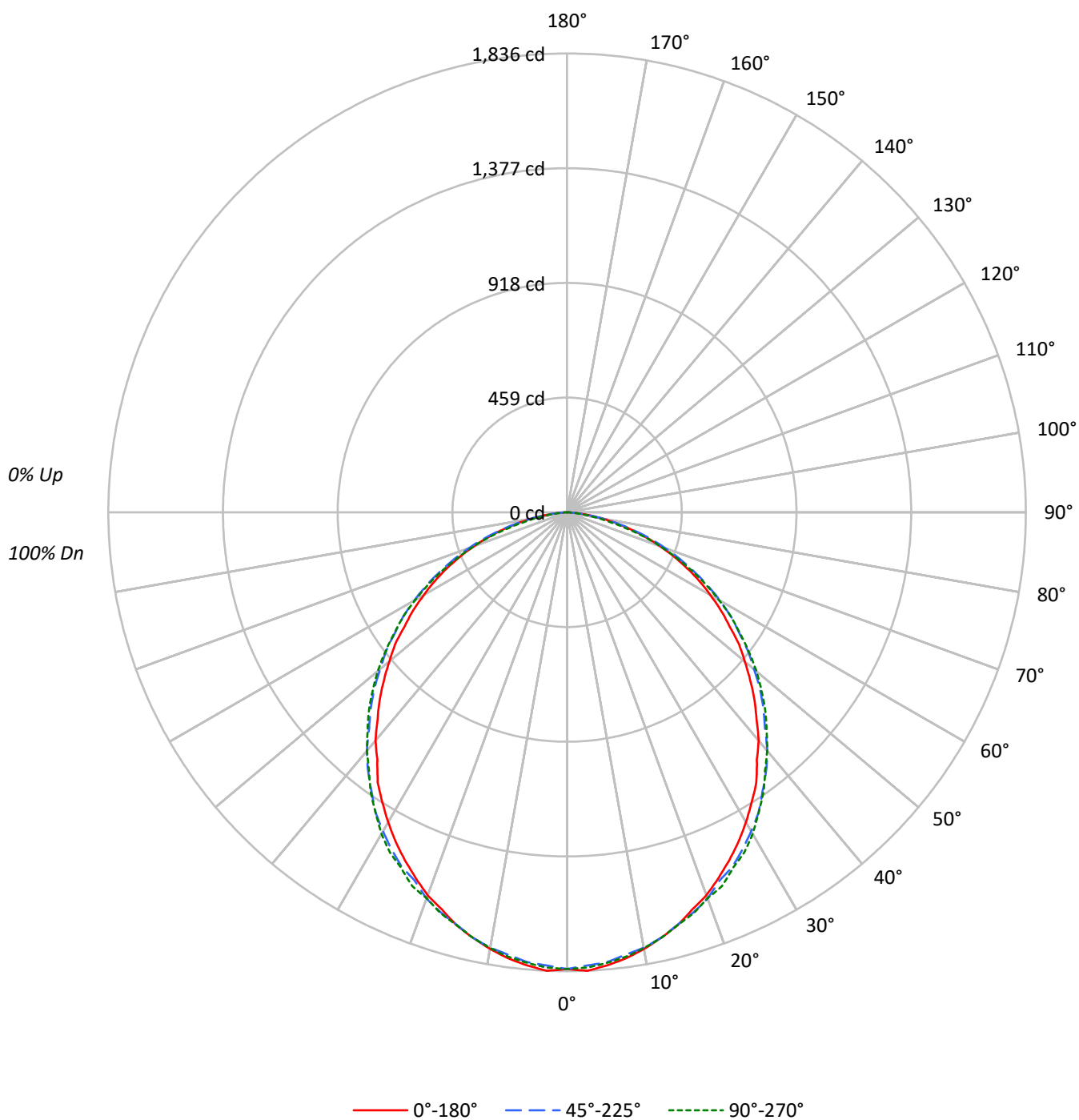
Lumens per Lamp: N/A
Luminaire Lumens: 4693.2 lumens
Efficiency: N/A
Efficacy: 70.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	105	101	97	107	102	99	95		98	95	92		94	92	90		91	89	87
2	100	92	85	79	97	90	84	79		86	81	77		83	79	75		80	76	73
3	91	81	73	66	89	79	72	66		76	70	65		73	68	64		71	66	62
4	83	72	63	57	81	70	62	56		68	61	55		66	59	55		63	58	54
5	77	64	55	49	75	63	55	49		61	54	48		59	53	48		57	52	47
6	71	58	49	43	69	57	49	43		55	48	42		53	47	42		52	46	41
7	66	53	44	38	64	52	44	38		50	43	37		49	42	37		47	41	37
8	61	48	40	34	60	47	39	34		46	39	34		45	38	33		44	38	33
9	57	44	36	31	56	44	36	30		42	35	30		41	35	30		40	34	30
10	54	41	33	28	53	40	33	28		39	32	28		38	32	27		37	32	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2458	2458	2458
5°	2458	2441	2445
10°	2424	2416	2419
15°	2382	2380	2381
20°	2334	2355	2353
25°	2280	2324	2331
30°	2224	2289	2308
35°	2169	2240	2250
40°	2095	2190	2188
45°	2019	2114	2135
50°	1943	2043	2070
55°	1861	1971	1983
60°	1782	1901	1887
65°	1689	1784	1749
70°	1556	1639	1564
75°	1376	1433	1252
80°	1107	1123	875
85°	726	695	509



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.7	3.7
10°-20°	482.9	10.3
20°-30°	719.0	15.3
30°-40°	846.3	18.0
40°-50°	848.5	18.1
50°-60°	744.1	15.9
60°-70°	544.1	11.6
70°-80°	280.4	6.0
80°-90°	56.3	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°	1373.6	29.3
0°-40°	2219.9	47.3
0°-60°	3812.5	81.2
0°-90°	4693.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4693.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1827	1827	1827	1827	1827	
5°	1820	1808	1807	1819	1810	172
15°	1710	1713	1708	1719	1709	481
25°	1536	1542	1565	1587	1570	707
35°	1321	1327	1364	1379	1370	822
45°	1061	1066	1111	1125	1122	818
55°	793	811	840	852	845	712
65°	530	542	560	558	549	525
75°	265	267	276	257	241	281
85°	47	46	45	36	33	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1827.2	1827.2	1827.2	1827.2	1827.2
2.5°	1836.2	1827.2	1815.2	1825.2	1823.2
5°	1820.2	1808.2	1807.2	1819.2	1810.2
7.5°	1800.2	1798.2	1786.2	1799.2	1794.2
10°	1774.2	1772.2	1768.2	1777.2	1770.2
12.5°	1743.3	1741.3	1743.3	1748.2	1743.3
15°	1710.3	1713.3	1708.3	1719.3	1709.3
17.5°	1666.3	1669.3	1679.3	1683.3	1682.3
20°	1630.4	1632.4	1644.4	1660.3	1643.4
22.5°	1583.4	1588.4	1594.4	1623.4	1619.4
25°	1535.5	1542.5	1565.4	1587.4	1570.4
27.5°	1485.5	1492.5	1520.5	1536.5	1534.5
30°	1431.6	1438.6	1473.5	1495.5	1485.5
32.5°	1375.6	1387.6	1425.6	1444.6	1425.6
35°	1320.7	1326.7	1363.6	1378.6	1369.6
37.5°	1247.7	1270.7	1307.7	1317.7	1301.7
40°	1192.8	1193.8	1246.7	1246.7	1245.8
42.5°	1121.9	1137.9	1172.8	1191.8	1181.8
45°	1060.9	1065.9	1110.9	1124.9	1121.9
47.5°	994.0	1014.0	1047.0	1062.9	1054.9
50°	928.1	942.1	976.0	997.0	989.0
52.5°	867.1	878.1	913.1	925.1	917.1
55°	793.2	811.2	840.2	852.1	845.2
57.5°	729.3	742.3	778.2	782.2	778.2
60°	662.3	677.3	706.3	709.3	701.3
62.5°	598.4	608.4	634.4	635.4	626.4
65°	530.5	542.5	560.4	558.4	549.4
67.5°	463.5	471.5	488.5	481.5	471.5
70°	395.6	402.6	416.6	406.6	397.6
72.5°	329.7	334.7	346.7	331.7	320.7
75°	264.7	266.7	275.7	256.7	240.8
77.5°	200.8	202.8	207.8	188.8	170.8
80°	142.9	142.9	144.9	124.9	112.9
82.5°	89.9	89.9	88.9	73.9	66.9
85°	47.0	46.0	45.0	36.0	33.0
87.5°	17.0	17.0	14.0	13.0	14.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)