

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: P487171

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-1STD-40-120-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: P487171
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-LD4-1STD-40-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

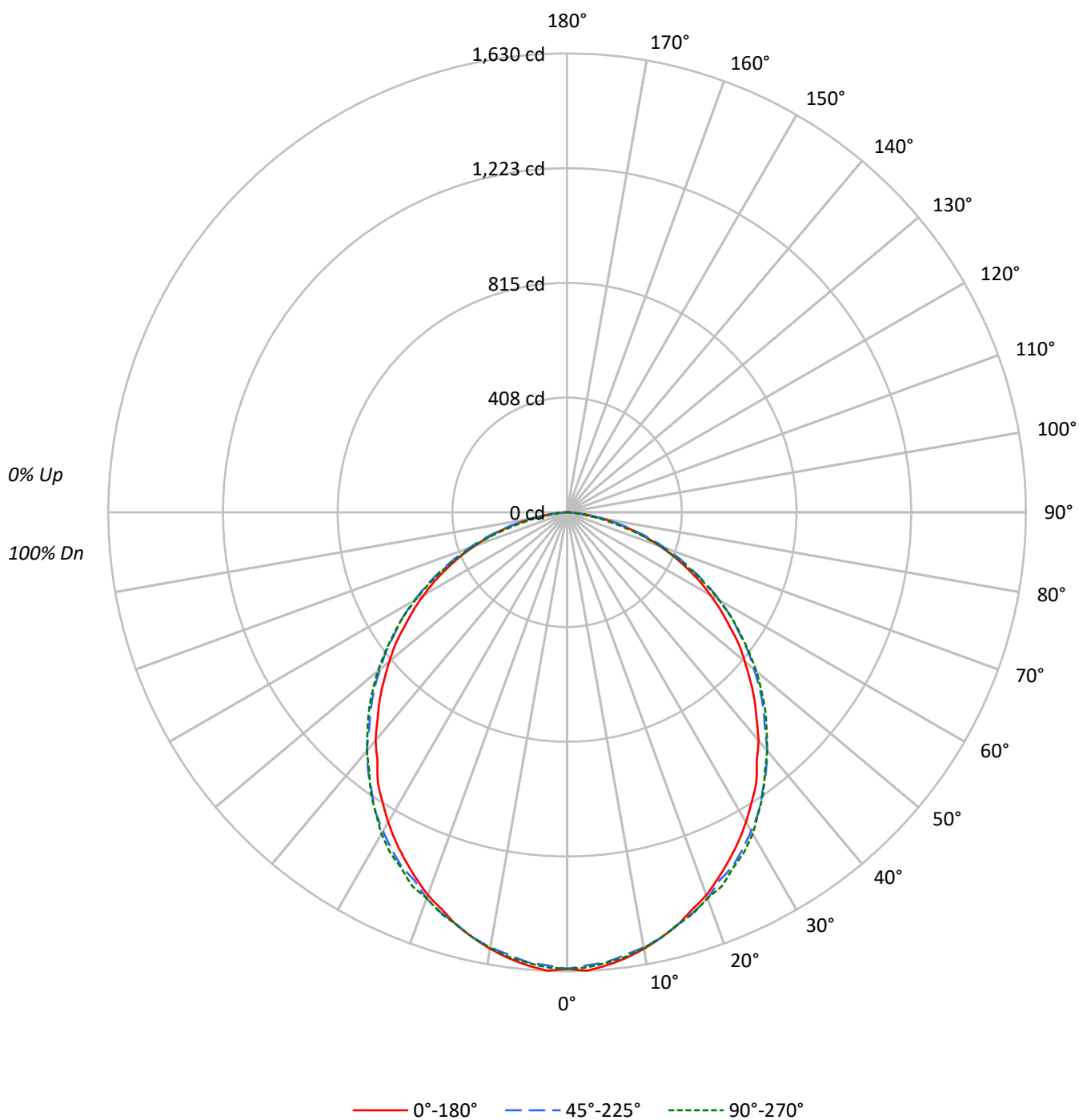
Lumens per Lamp: N/A
Luminaire Lumens: 4165.4 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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			
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°	2182	2182	2182
5°	2182	2166	2170
10°	2151	2144	2147
15°	2114	2112	2113
20°	2072	2090	2088
25°	2023	2063	2069
30°	1974	2032	2048
35°	1925	1988	1997
40°	1860	1943	1942
45°	1792	1876	1895
50°	1724	1813	1837
55°	1651	1749	1760
60°	1582	1687	1675
65°	1499	1584	1553
70°	1381	1454	1388
75°	1222	1272	1111
80°	982	996	776
85°	644	616	452



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.4	3.7
10°-20°	428.6	10.3
20°-30°	638.1	15.3
30°-40°	751.1	18.0
40°-50°	753.1	18.1
50°-60°	660.4	15.9
60°-70°	482.9	11.6
70°-80°	248.9	6.0
80°-90°	49.9	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°	1219.2	29.3
0°-40°	1970.3	47.3
0°-60°	3383.7	81.2
0°-90°	4165.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4165.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1622	1622	1622	1622	1622	
5°	1616	1605	1604	1615	1607	153
15°	1518	1521	1516	1526	1517	427
25°	1363	1369	1389	1409	1394	628
35°	1172	1178	1210	1224	1216	730
45°	942	946	986	998	996	726
55°	704	720	746	756	750	632
65°	471	482	497	496	488	466
75°	235	237	245	228	214	249
85°	42	41	40	32	29	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1621.7	1621.7	1621.7	1621.7	1621.7
2.5°	1629.7	1621.7	1611.0	1619.9	1618.1
5°	1615.5	1604.8	1604.0	1614.6	1606.6
7.5°	1597.7	1596.0	1585.3	1596.9	1592.4
10°	1574.7	1572.9	1569.4	1577.4	1571.1
12.5°	1547.2	1545.4	1547.2	1551.6	1547.2
15°	1517.9	1520.6	1516.2	1525.9	1517.1
17.5°	1478.9	1481.6	1490.5	1494.0	1493.1
20°	1447.0	1448.8	1459.4	1473.6	1458.5
22.5°	1405.3	1409.8	1415.1	1440.8	1437.3
25°	1362.8	1369.0	1389.4	1408.9	1393.8
27.5°	1318.4	1324.7	1349.5	1363.7	1361.9
30°	1270.6	1276.8	1307.8	1327.3	1318.4
32.5°	1220.9	1231.6	1265.3	1282.1	1265.3
35°	1172.2	1177.5	1210.3	1223.6	1215.6
37.5°	1107.4	1127.8	1160.6	1169.5	1155.3
40°	1058.7	1059.5	1106.5	1106.5	1105.7
42.5°	995.7	1009.9	1040.9	1057.8	1048.9
45°	941.6	946.1	986.0	998.4	995.7
47.5°	882.2	900.0	929.2	943.4	936.3
50°	823.7	836.1	866.3	884.9	877.8
52.5°	769.6	779.4	810.4	821.0	813.9
55°	704.0	720.0	745.7	756.3	750.1
57.5°	647.3	658.8	690.7	694.2	690.7
60°	587.8	601.1	626.9	629.5	622.4
62.5°	531.1	540.0	563.0	563.9	555.9
65°	470.8	481.5	497.4	495.6	487.7
67.5°	411.4	418.5	433.6	427.4	418.5
70°	351.1	357.3	369.7	360.9	352.9
72.5°	292.6	297.0	307.7	294.4	284.6
75°	235.0	236.7	244.7	227.9	213.7
77.5°	178.2	180.0	184.4	167.6	151.6
80°	126.8	126.8	128.6	110.8	100.2
82.5°	79.8	79.8	78.9	65.6	59.4
85°	41.7	40.8	39.9	31.9	29.3
87.5°	15.1	15.1	12.4	11.5	12.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)