

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: P485140

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-2LO-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: P485140
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-12-4-INS-A125-LD4-2LO-35-120-EDD-90
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

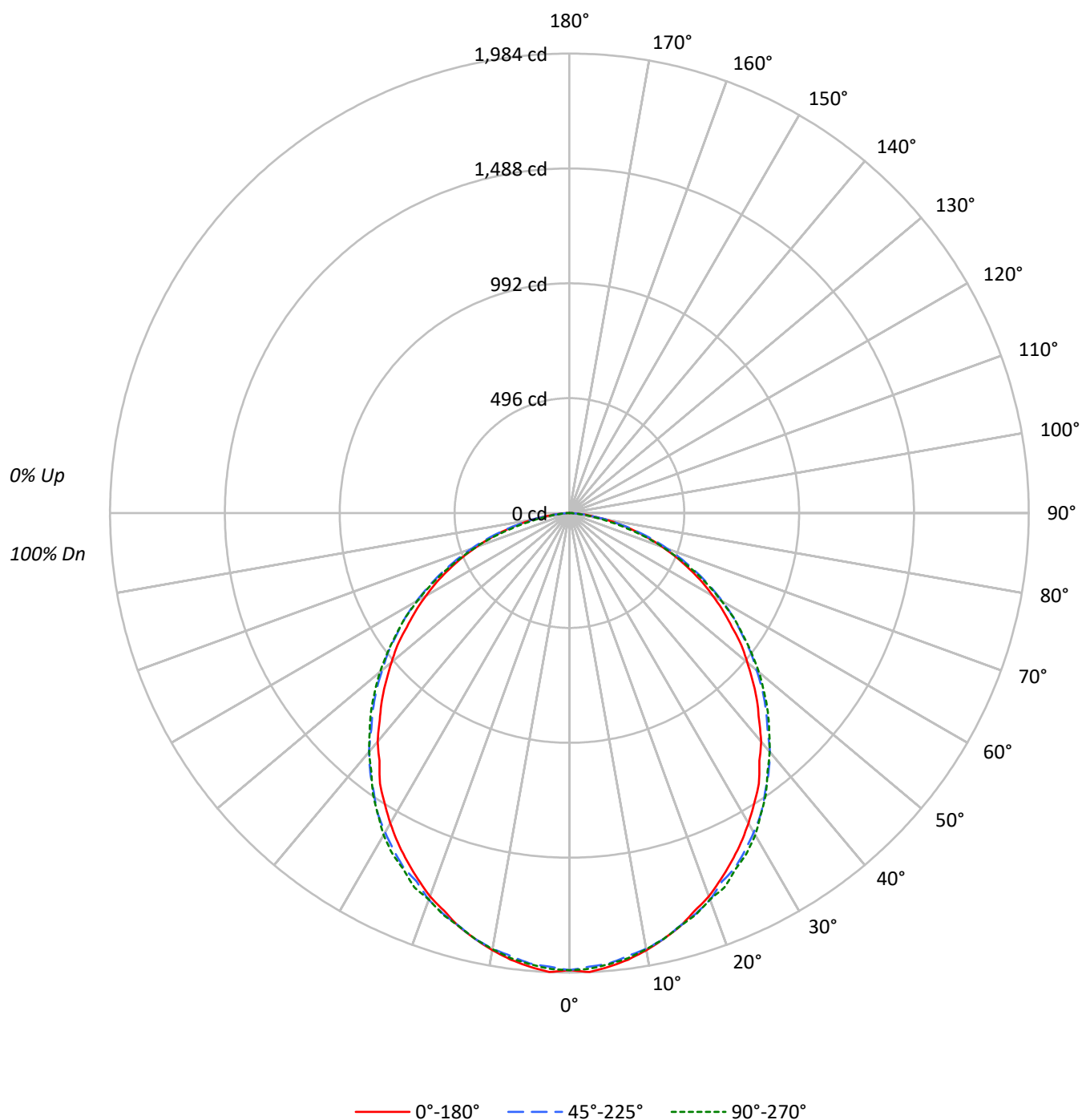
Lumens per Lamp: N/A
Luminaire Lumens: 5069.9 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 46.8
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°	5311	5311	5311
5°	5311	5273	5282
10°	5237	5220	5225
15°	5147	5141	5144
20°	5044	5087	5084
25°	4925	5021	5037
30°	4805	4946	4986
35°	4687	4839	4861
40°	4526	4731	4727
45°	4362	4567	4612
50°	4197	4414	4473
55°	4020	4258	4283
60°	3851	4106	4077
65°	3649	3855	3780
70°	3363	3541	3379
75°	2974	3097	2704
80°	2391	2425	1889
85°	1565	1501	1099



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.5	3.7
10°-20°	521.7	10.3
20°-30°	776.7	15.3
30°-40°	914.2	18.0
40°-50°	916.6	18.1
50°-60°	803.8	15.9
60°-70°	587.8	11.6
70°-80°	302.9	6.0
80°-90°	60.8	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°	1483.9	29.3
0°-40°	2398.1	47.3
0°-60°	4118.5	81.2
0°-90°	5069.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5069.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1974	1974	1974	1974	1974	
5°	1966	1953	1952	1965	1956	186
15°	1848	1851	1845	1857	1846	520
25°	1659	1666	1691	1715	1696	764
35°	1427	1433	1473	1489	1480	888
45°	1146	1152	1200	1215	1212	883
55°	857	876	908	920	913	769
65°	573	586	605	603	594	567
75°	286	288	298	277	260	303
85°	51	50	49	39	36	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1973.8	1973.8	1973.8	1973.8	1973.8
2.5°	1983.5	1973.8	1960.9	1971.7	1969.5
5°	1966.3	1953.3	1952.2	1965.2	1955.5
7.5°	1944.7	1942.5	1929.6	1943.6	1938.2
10°	1916.6	1914.5	1910.2	1919.9	1912.3
12.5°	1883.2	1881.0	1883.2	1888.6	1883.2
15°	1847.6	1850.8	1845.4	1857.3	1846.5
17.5°	1800.1	1803.3	1814.1	1818.4	1817.3
20°	1761.2	1763.4	1776.3	1793.6	1775.3
22.5°	1710.5	1715.9	1722.4	1753.7	1749.4
25°	1658.7	1666.3	1691.1	1714.8	1696.5
27.5°	1604.7	1612.3	1642.5	1659.8	1657.6
30°	1546.5	1554.0	1591.8	1615.5	1604.7
32.5°	1486.0	1499.0	1540.0	1560.5	1540.0
35°	1426.7	1433.2	1473.1	1489.3	1479.6
37.5°	1347.9	1372.7	1412.7	1423.4	1406.2
40°	1288.5	1289.6	1346.8	1346.8	1345.7
42.5°	1211.9	1229.2	1267.0	1287.5	1276.7
45°	1146.1	1151.5	1200.1	1215.2	1211.9
47.5°	1073.8	1095.4	1131.0	1148.3	1139.6
50°	1002.6	1017.7	1054.4	1077.0	1068.4
52.5°	936.7	948.6	986.4	999.3	990.7
55°	856.9	876.3	907.6	920.5	913.0
57.5°	787.8	801.8	840.7	845.0	840.7
60°	715.5	731.7	763.0	766.2	757.6
62.5°	646.4	657.2	685.3	686.4	676.6
65°	573.0	586.0	605.4	603.3	593.6
67.5°	500.7	509.4	527.7	520.2	509.4
70°	427.4	434.9	450.0	439.2	429.5
72.5°	356.1	361.5	374.5	358.3	346.4
75°	286.0	288.1	297.9	277.4	260.1
77.5°	216.9	219.1	224.5	204.0	184.5
80°	154.3	154.3	156.5	134.9	121.9
82.5°	97.1	97.1	96.0	79.9	72.3
85°	50.7	49.6	48.6	38.9	35.6
87.5°	18.3	18.3	15.1	14.0	15.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)