

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: P485192

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-3STD-50-120-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: P485192
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-LD4-3STD-50-120-EDD-90
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

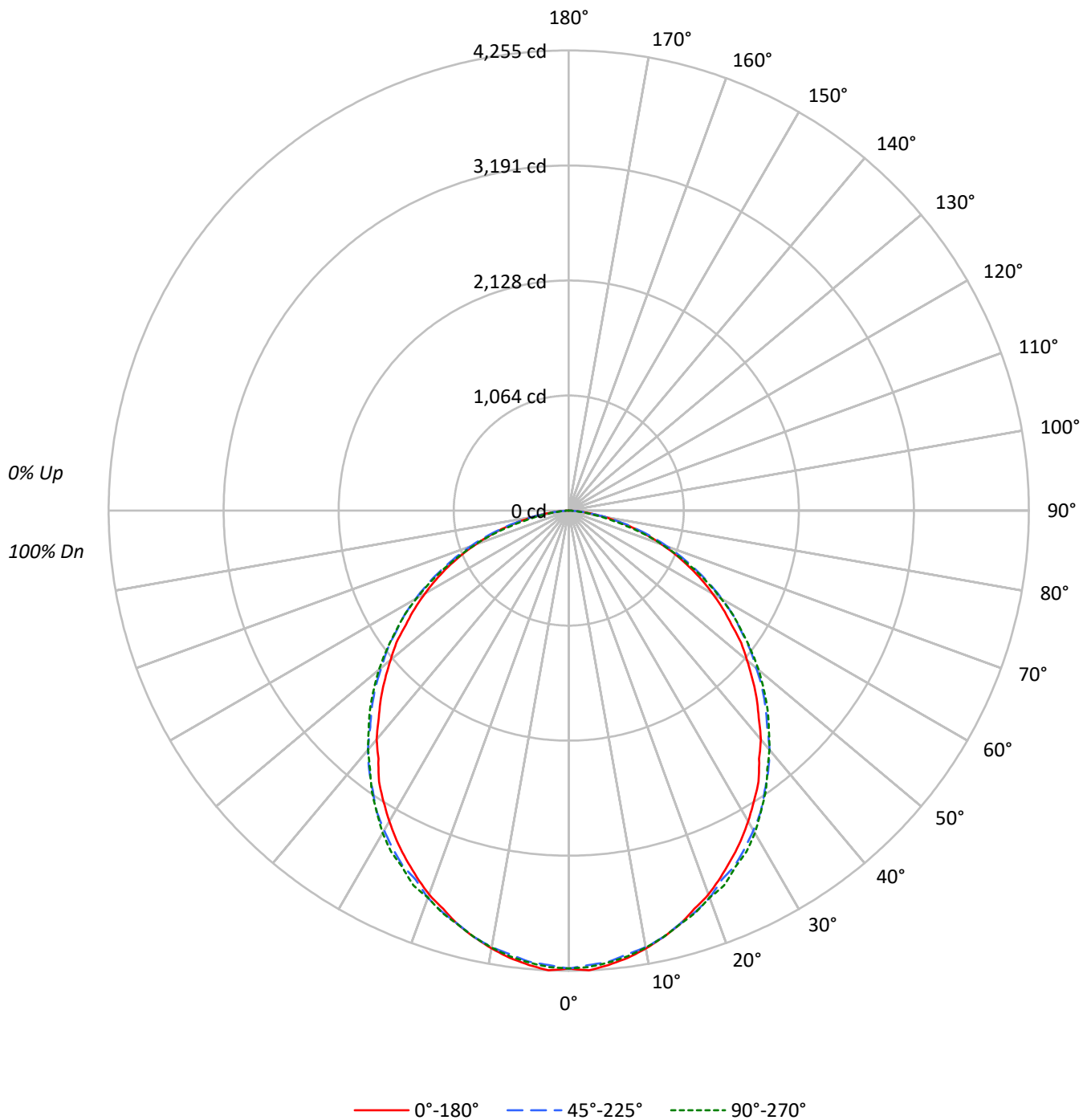
Lumens per Lamp: N/A
Luminaire Lumens: 10876.2 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 99.9
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°	11394	11394	11394
5°	11394	11313	11332
10°	11235	11197	11210
15°	11042	11029	11036
20°	10820	10913	10906
25°	10565	10772	10806
30°	10309	10611	10697
35°	10054	10381	10427
40°	9710	10150	10142
45°	9357	9797	9894
50°	9004	9469	9595
55°	8624	9135	9189
60°	8261	8809	8747
65°	7827	8270	8108
70°	7213	7596	7249
75°	6379	6644	5801
80°	5131	5202	4054
85°	3359	3217	2359



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	398.0	3.7
10°-20°	1119.1	10.3
20°-30°	1666.2	15.3
30°-40°	1961.2	18.0
40°-50°	1966.3	18.1
50°-60°	1724.3	15.9
60°-70°	1260.9	11.6
70°-80°	649.8	6.0
80°-90°	130.4	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°	3183.3	29.3
0°-40°	5144.5	47.3
0°-60°	8835.2	81.2
0°-90°	10876.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10876.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4234	4234	4234	4234	4234	
5°	4218	4190	4188	4216	4195	399
15°	3964	3970	3959	3984	3961	1115
25°	3558	3574	3628	3679	3639	1639
35°	3061	3074	3160	3195	3174	1906
45°	2459	2470	2574	2607	2600	1895
55°	1838	1880	1947	1975	1959	1650
65°	1229	1257	1299	1294	1273	1216
75°	614	618	639	595	558	650
85°	109	106	104	83	76	142
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4234.3	4234.3	4234.3	4234.3	4234.3
2.5°	4255.2	4234.3	4206.6	4229.7	4225.1
5°	4218.1	4190.4	4188.0	4215.8	4195.0
7.5°	4171.8	4167.2	4139.4	4169.5	4157.9
10°	4111.6	4107.0	4097.8	4118.6	4102.4
12.5°	4039.9	4035.2	4039.9	4051.5	4039.9
15°	3963.5	3970.4	3958.8	3984.3	3961.2
17.5°	3861.6	3868.6	3891.7	3901.0	3898.7
20°	3778.3	3782.9	3810.7	3847.7	3808.4
22.5°	3669.5	3681.0	3694.9	3762.1	3752.8
25°	3558.3	3574.5	3627.8	3678.7	3639.4
27.5°	3442.6	3458.8	3523.6	3560.6	3556.0
30°	3317.6	3333.8	3414.8	3465.7	3442.6
32.5°	3187.9	3215.7	3303.7	3347.7	3303.7
35°	3060.6	3074.5	3160.1	3194.9	3174.0
37.5°	2891.6	2944.8	3030.5	3053.6	3016.6
40°	2764.2	2766.6	2889.3	2889.3	2887.0
42.5°	2599.9	2636.9	2717.9	2761.9	2738.8
45°	2458.7	2470.2	2574.4	2606.8	2599.9
47.5°	2303.5	2349.8	2426.2	2463.3	2444.8
50°	2150.7	2183.2	2261.9	2310.5	2292.0
52.5°	2009.5	2035.0	2116.0	2143.8	2125.3
55°	1838.2	1879.9	1947.0	1974.8	1958.6
57.5°	1690.0	1720.1	1803.5	1812.7	1803.5
60°	1534.9	1569.6	1636.8	1643.7	1625.2
62.5°	1386.8	1409.9	1470.1	1472.4	1451.6
65°	1229.3	1257.1	1298.8	1294.2	1273.3
67.5°	1074.2	1092.7	1132.1	1115.9	1092.7
70°	916.8	933.0	965.4	942.3	921.4
72.5°	764.0	775.6	803.3	768.6	743.2
75°	613.5	618.1	639.0	595.0	557.9
77.5°	465.3	470.0	481.5	437.6	395.9
80°	331.1	331.1	335.7	289.4	261.6
82.5°	208.4	208.4	206.0	171.3	155.1
85°	108.8	106.5	104.2	83.3	76.4
87.5°	39.4	39.4	32.4	30.1	32.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)