

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: P485134

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-2LO-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: P485134
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-20-120-EDD-90
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

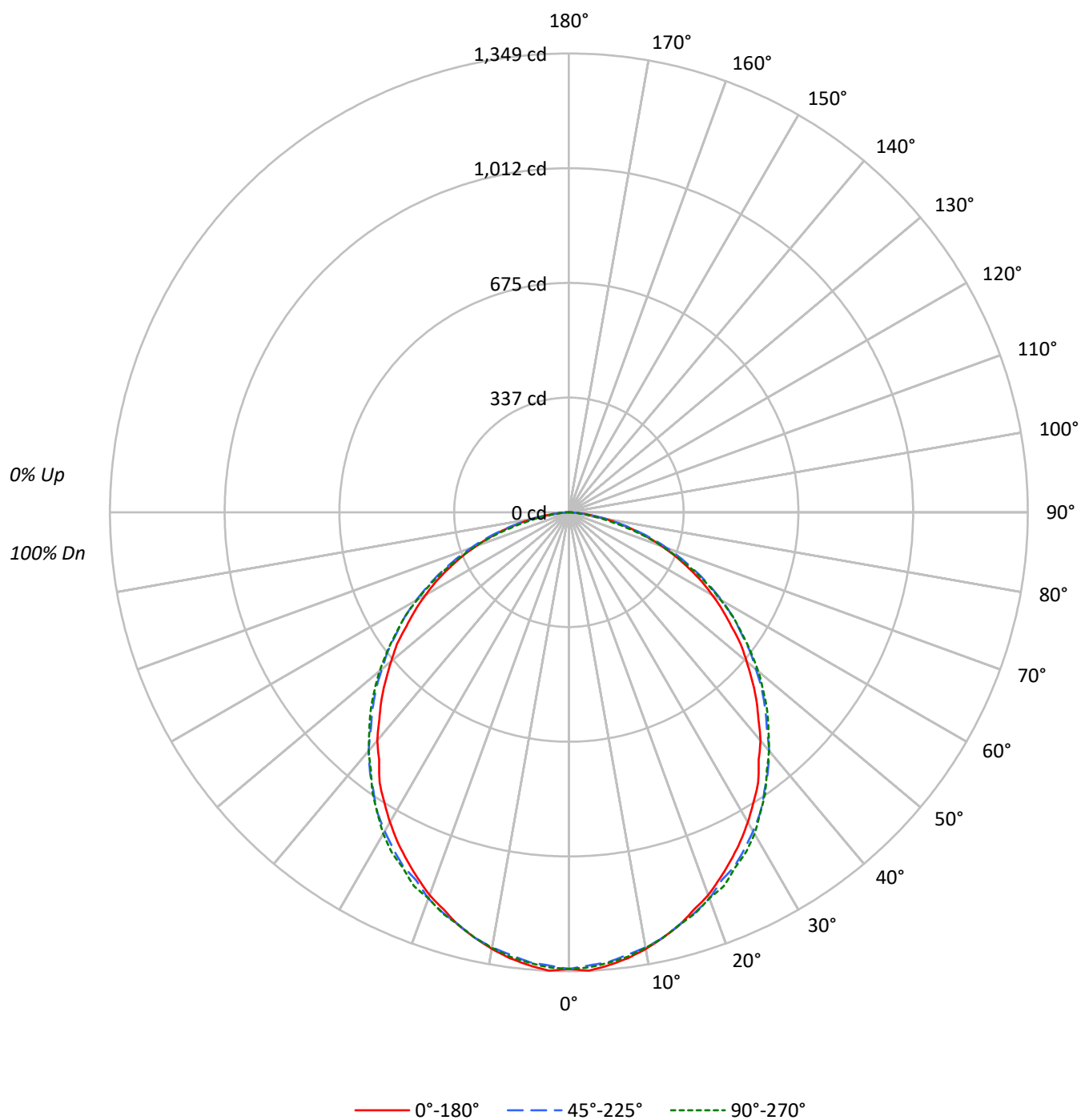
Lumens per Lamp: N/A
Luminaire Lumens: 3447.5 lumens
Efficiency: N/A
Efficacy: 73.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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				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°	3612	3612	3612
5°	3612	3586	3592
10°	3561	3549	3553
15°	3500	3496	3498
20°	3430	3459	3457
25°	3349	3414	3425
30°	3268	3363	3391
35°	3187	3291	3305
40°	3078	3217	3215
45°	2966	3105	3136
50°	2854	3002	3041
55°	2734	2896	2913
60°	2618	2792	2773
65°	2481	2621	2570
70°	2286	2408	2298
75°	2022	2105	1839
80°	1626	1649	1285
85°	1065	1019	747



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.2	3.7
10°-20°	354.7	10.3
20°-30°	528.1	15.3
30°-40°	621.6	18.0
40°-50°	623.3	18.1
50°-60°	546.6	15.9
60°-70°	399.7	11.6
70°-80°	206.0	6.0
80°-90°	41.3	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°	1009.0	29.3
0°-40°	1630.7	47.3
0°-60°	2800.5	81.2
0°-90°	3447.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3447.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1342	1342	1342	1342	1342	
5°	1337	1328	1328	1336	1330	127
15°	1256	1258	1255	1263	1256	354
25°	1128	1133	1150	1166	1154	520
35°	970	974	1002	1013	1006	604
45°	779	783	816	826	824	601
55°	583	596	617	626	621	523
65°	390	398	412	410	404	385
75°	194	196	202	189	177	206
85°	34	34	33	26	24	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1342.2	1342.2	1342.2	1342.2	1342.2
2.5°	1348.8	1342.2	1333.4	1340.7	1339.3
5°	1337.1	1328.2	1327.5	1336.3	1329.7
7.5°	1322.4	1320.9	1312.1	1321.6	1318.0
10°	1303.3	1301.8	1298.9	1305.5	1300.4
12.5°	1280.5	1279.1	1280.5	1284.2	1280.5
15°	1256.3	1258.5	1254.9	1262.9	1255.6
17.5°	1224.0	1226.2	1233.6	1236.5	1235.8
20°	1197.6	1199.1	1207.9	1219.6	1207.2
22.5°	1163.1	1166.8	1171.2	1192.5	1189.6
25°	1127.9	1133.0	1149.9	1166.1	1153.6
27.5°	1091.2	1096.4	1116.9	1128.6	1127.2
30°	1051.6	1056.7	1082.4	1098.6	1091.2
32.5°	1010.5	1019.3	1047.2	1061.1	1047.2
35°	970.1	974.5	1001.7	1012.7	1006.1
37.5°	916.6	933.4	960.6	967.9	956.2
40°	876.2	876.9	915.8	915.8	915.1
42.5°	824.1	835.8	861.5	875.5	868.1
45°	779.3	783.0	816.0	826.3	824.1
47.5°	730.2	744.8	769.1	780.8	774.9
50°	681.7	692.0	717.0	732.4	726.5
52.5°	637.0	645.0	670.7	679.5	673.7
55°	582.7	595.9	617.2	626.0	620.8
57.5°	535.7	545.2	571.7	574.6	571.7
60°	486.5	497.5	518.8	521.0	515.2
62.5°	439.6	446.9	466.0	466.7	460.1
65°	389.7	398.5	411.7	410.2	403.6
67.5°	340.5	346.4	358.8	353.7	346.4
70°	290.6	295.7	306.0	298.7	292.1
72.5°	242.2	245.8	254.6	243.6	235.6
75°	194.5	195.9	202.5	188.6	176.9
77.5°	147.5	149.0	152.6	138.7	125.5
80°	104.9	104.9	106.4	91.7	82.9
82.5°	66.0	66.0	65.3	54.3	49.2
85°	34.5	33.8	33.0	26.4	24.2
87.5°	12.5	12.5	10.3	9.5	10.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)