

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: P485115

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-1STD-30-120-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: P485115
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-LD4-1STD-30-120-EDD
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

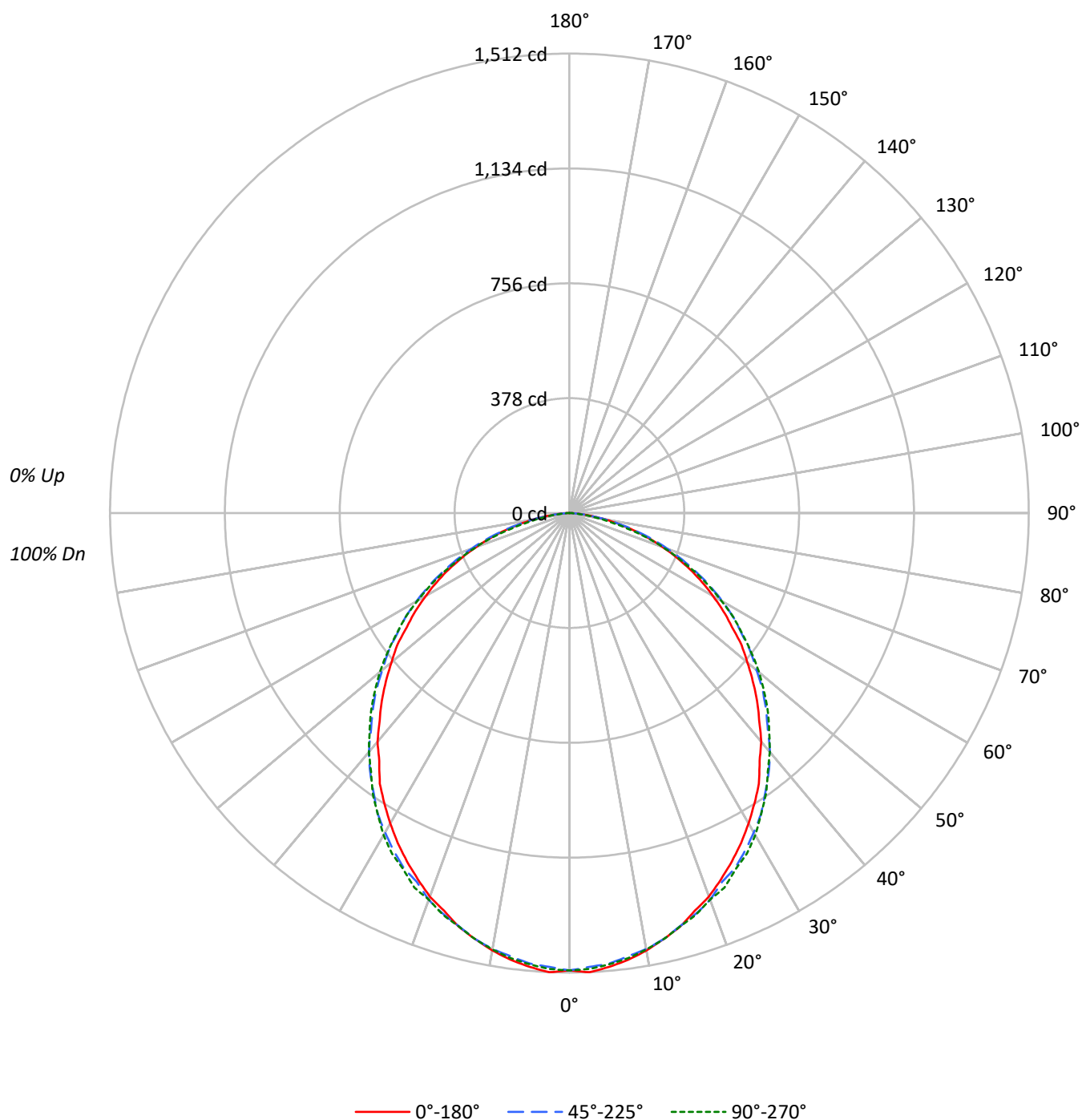
Lumens per Lamp: N/A
Luminaire Lumens: 3865.4 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4050	4050	4050
5°	4049	4021	4027
10°	3993	3979	3984
15°	3924	3920	3922
20°	3845	3878	3876
25°	3755	3828	3840
30°	3664	3771	3802
35°	3573	3689	3706
40°	3451	3607	3604
45°	3325	3482	3516
50°	3200	3365	3410
55°	3065	3247	3266
60°	2936	3131	3109
65°	2782	2939	2881
70°	2563	2699	2577
75°	2267	2361	2062
80°	1824	1849	1441
85°	1195	1142	840



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.4	3.7
10°-20°	397.7	10.3
20°-30°	592.2	15.3
30°-40°	697.0	18.0
40°-50°	698.8	18.1
50°-60°	612.8	15.9
60°-70°	448.1	11.6
70°-80°	230.9	6.0
80°-90°	46.3	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°	1131.3	29.3
0°-40°	1828.4	47.3
0°-60°	3140.0	81.2
0°-90°	3865.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3865.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1505	1505	1505	1505	1505	
5°	1499	1489	1488	1498	1491	142
15°	1409	1411	1407	1416	1408	396
25°	1265	1270	1289	1307	1293	583
35°	1088	1093	1123	1136	1128	677
45°	874	878	915	926	924	673
55°	653	668	692	702	696	586
65°	437	447	462	460	452	432
75°	218	220	227	212	198	231
85°	39	38	37	30	27	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1504.9	1504.9	1504.9	1504.9	1504.9
2.5°	1512.3	1504.9	1495.0	1503.2	1501.6
5°	1499.1	1489.3	1488.4	1498.3	1490.9
7.5°	1482.7	1481.0	1471.2	1481.8	1477.7
10°	1461.3	1459.6	1456.3	1463.7	1458.0
12.5°	1435.8	1434.1	1435.8	1439.9	1435.8
15°	1408.6	1411.1	1407.0	1416.0	1407.8
17.5°	1372.4	1374.9	1383.1	1386.4	1385.6
20°	1342.8	1344.4	1354.3	1367.5	1353.5
22.5°	1304.1	1308.2	1313.2	1337.0	1333.7
25°	1264.6	1270.4	1289.3	1307.4	1293.4
27.5°	1223.5	1229.3	1252.3	1265.5	1263.8
30°	1179.1	1184.8	1213.6	1231.7	1223.5
32.5°	1133.0	1142.9	1174.1	1189.8	1174.1
35°	1087.7	1092.7	1123.1	1135.5	1128.0
37.5°	1027.7	1046.6	1077.0	1085.3	1072.1
40°	982.4	983.2	1026.8	1026.8	1026.0
42.5°	924.0	937.2	966.0	981.6	973.4
45°	873.8	877.9	914.9	926.5	924.0
47.5°	818.7	835.1	862.3	875.5	868.9
50°	764.4	775.9	803.9	821.1	814.6
52.5°	714.2	723.2	752.0	761.9	755.3
55°	653.3	668.1	692.0	701.8	696.1
57.5°	600.6	611.3	641.0	644.2	641.0
60°	545.5	557.9	581.7	584.2	577.6
62.5°	492.9	501.1	522.5	523.3	515.9
65°	436.9	446.8	461.6	459.9	452.5
67.5°	381.8	388.4	402.3	396.6	388.4
70°	325.8	331.6	343.1	334.9	327.5
72.5°	271.5	275.6	285.5	273.2	264.1
75°	218.0	219.7	227.1	211.5	198.3
77.5°	165.4	167.0	171.1	155.5	140.7
80°	117.7	117.7	119.3	102.8	93.0
82.5°	74.1	74.1	73.2	60.9	55.1
85°	38.7	37.8	37.0	29.6	27.2
87.5°	14.0	14.0	11.5	10.7	11.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)