

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: P485120

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-1STD-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: P485120
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-50-120-EDD-90
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

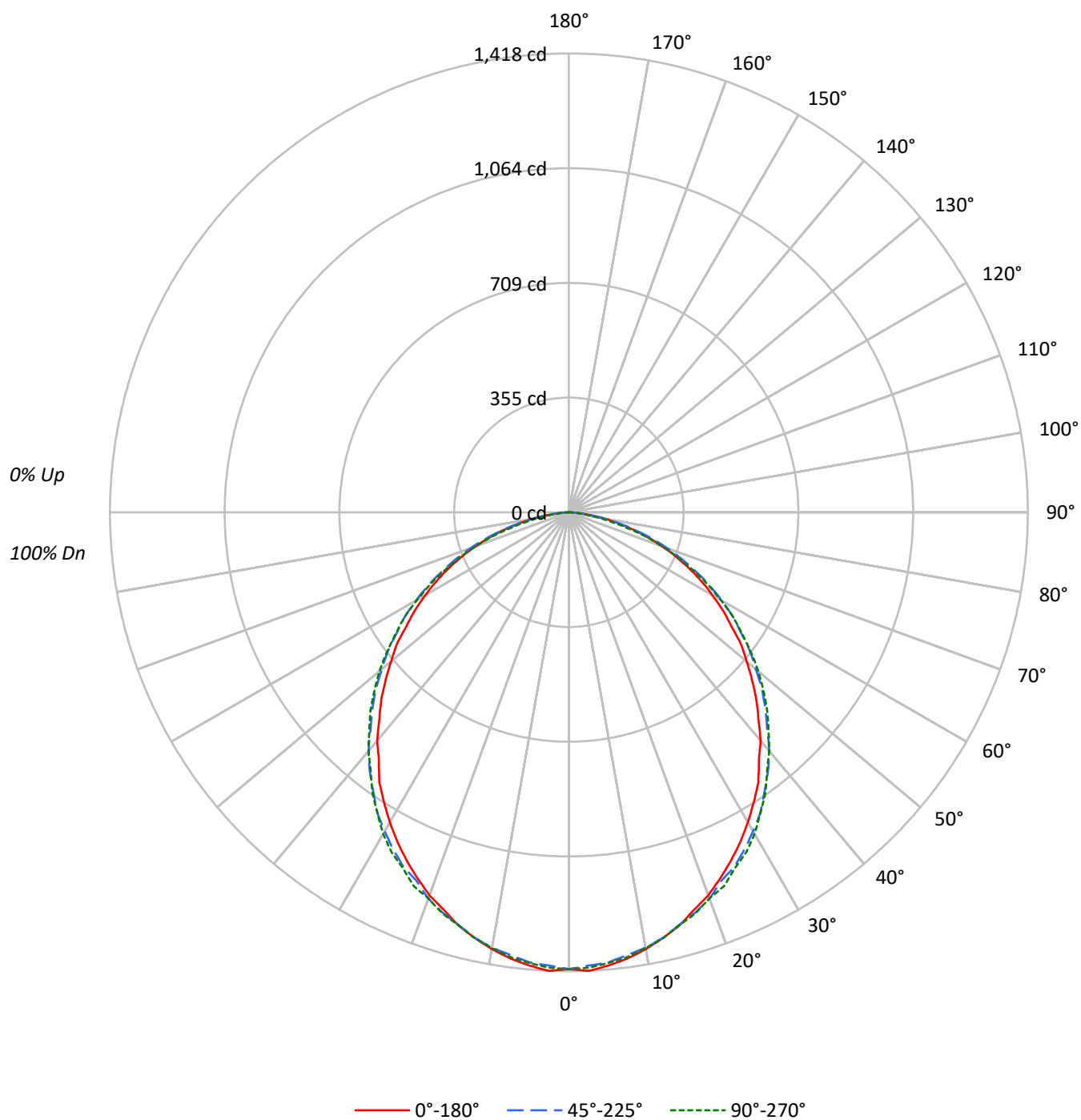
Lumens per Lamp: N/A
Luminaire Lumens: 3625.4 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	3798	3798	3798
5°	3798	3771	3777
10°	3745	3732	3737
15°	3681	3676	3679
20°	3607	3637	3635
25°	3522	3591	3602
30°	3436	3537	3566
35°	3351	3461	3476
40°	3237	3383	3380
45°	3119	3266	3298
50°	3001	3157	3198
55°	2875	3045	3063
60°	2753	2936	2915
65°	2609	2756	2702
70°	2404	2532	2416
75°	2126	2215	1934
80°	1711	1734	1351
85°	1121	1071	787



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.7	3.7
10°-20°	373.0	10.3
20°-30°	555.4	15.3
30°-40°	653.7	18.0
40°-50°	655.4	18.1
50°-60°	574.8	15.9
60°-70°	420.3	11.6
70°-80°	216.6	6.0
80°-90°	43.5	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°	1061.1	29.3
0°-40°	1714.8	47.3
0°-60°	2945.0	81.2
0°-90°	3625.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3625.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1411	1411	1411	1411	1411	
5°	1406	1397	1396	1405	1398	133
15°	1321	1324	1320	1328	1320	372
25°	1186	1192	1209	1226	1213	546
35°	1020	1025	1053	1065	1058	635
45°	820	823	858	869	867	632
55°	613	627	649	658	653	550
65°	410	419	433	431	424	405
75°	204	206	213	198	186	217
85°	36	36	35	28	26	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1411.4	1411.4	1411.4	1411.4	1411.4
2.5°	1418.4	1411.4	1402.2	1409.9	1408.4
5°	1406.0	1396.8	1396.0	1405.3	1398.3
7.5°	1390.6	1389.1	1379.8	1389.8	1386.0
10°	1370.5	1369.0	1365.9	1372.9	1367.5
12.5°	1346.6	1345.1	1346.6	1350.5	1346.6
15°	1321.2	1323.5	1319.6	1328.1	1320.4
17.5°	1287.2	1289.5	1297.2	1300.3	1299.6
20°	1259.4	1261.0	1270.2	1282.6	1269.5
22.5°	1223.2	1227.0	1231.6	1254.0	1250.9
25°	1186.1	1191.5	1209.3	1226.2	1213.1
27.5°	1147.5	1152.9	1174.5	1186.9	1185.3
30°	1105.9	1111.3	1138.3	1155.2	1147.5
32.5°	1062.6	1071.9	1101.2	1115.9	1101.2
35°	1020.2	1024.8	1053.4	1065.0	1058.0
37.5°	963.9	981.6	1010.2	1017.9	1005.5
40°	921.4	922.2	963.1	963.1	962.3
42.5°	866.6	879.0	906.0	920.6	912.9
45°	819.6	823.4	858.1	868.9	866.6
47.5°	767.8	783.3	808.7	821.1	814.9
50°	716.9	727.7	754.0	770.2	764.0
52.5°	669.8	678.3	705.3	714.6	708.4
55°	612.7	626.6	649.0	658.3	652.9
57.5°	563.3	573.4	601.2	604.2	601.2
60°	511.6	523.2	545.6	547.9	541.7
62.5°	462.3	470.0	490.0	490.8	483.9
65°	409.8	419.0	432.9	431.4	424.4
67.5°	358.1	364.2	377.4	372.0	364.2
70°	305.6	311.0	321.8	314.1	307.1
72.5°	254.7	258.5	267.8	256.2	247.7
75°	204.5	206.0	213.0	198.3	186.0
77.5°	155.1	156.7	160.5	145.9	132.0
80°	110.4	110.4	111.9	96.5	87.2
82.5°	69.5	69.5	68.7	57.1	51.7
85°	36.3	35.5	34.7	27.8	25.5
87.5°	13.1	13.1	10.8	10.0	10.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)