

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: P487159

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-1LO-40-120-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: P487159
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-24-4-INS-A125-LD4-1LO-40-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

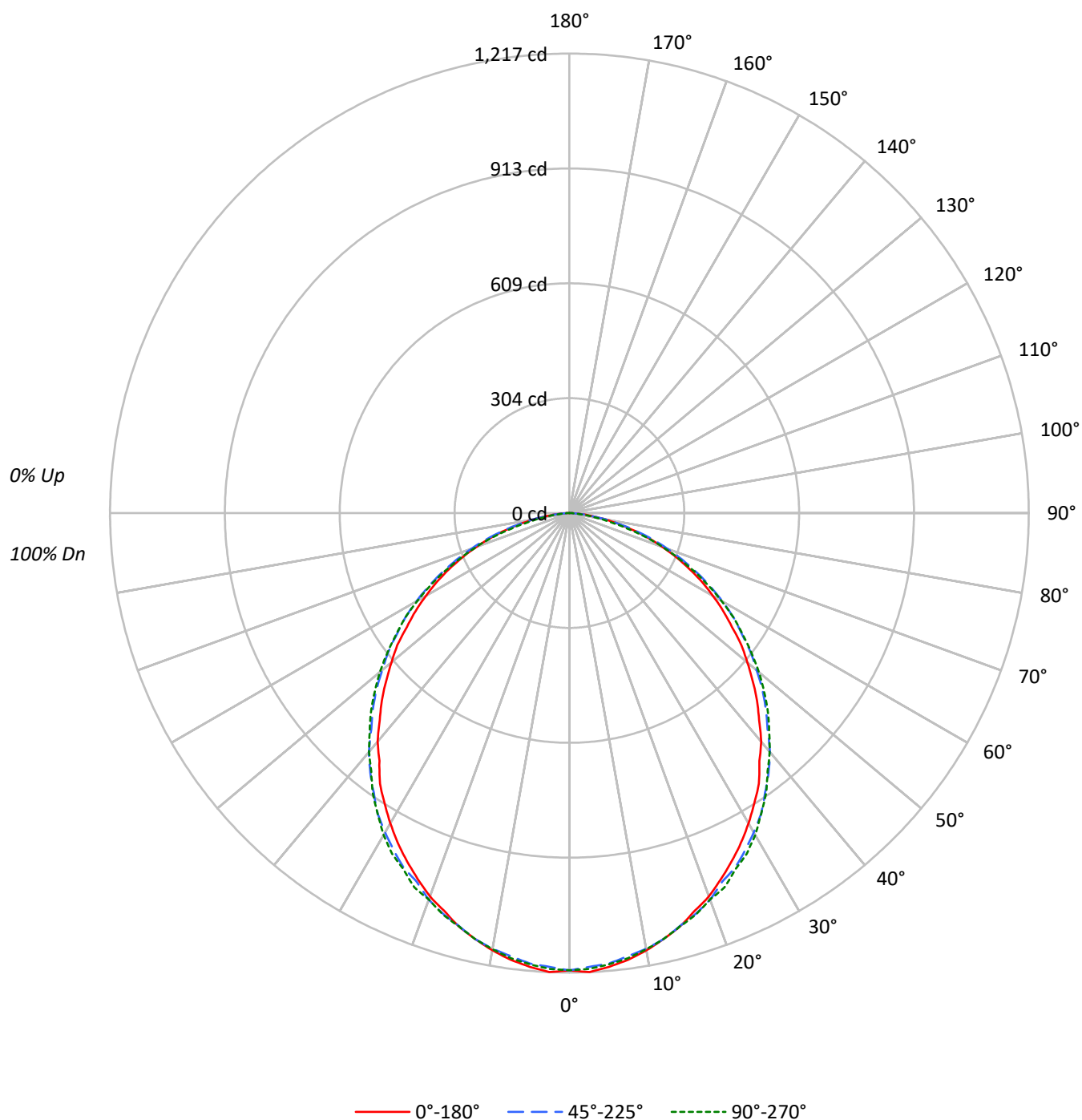
Lumens per Lamp: N/A
Luminaire Lumens: 3110.5 lumens
Efficiency: N/A
Efficacy: 132.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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°	1629	1629	1629
5°	1629	1618	1620
10°	1607	1601	1603
15°	1579	1577	1578
20°	1547	1560	1560
25°	1511	1540	1545
30°	1474	1517	1530
35°	1438	1485	1491
40°	1389	1451	1450
45°	1338	1401	1415
50°	1288	1354	1372
55°	1233	1306	1314
60°	1181	1260	1251
65°	1119	1182	1160
70°	1031	1086	1037
75°	912	950	830
80°	734	744	580
85°	480	460	337



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.8	3.7
10°-20°	320.1	10.3
20°-30°	476.5	15.3
30°-40°	560.9	18.0
40°-50°	562.4	18.1
50°-60°	493.1	15.9
60°-70°	360.6	11.6
70°-80°	185.8	6.0
80°-90°	37.3	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°	910.4	29.3
0°-40°	1471.3	47.3
0°-60°	2526.8	81.2
0°-90°	3110.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3110.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1211	1211	1211	1211	1211	
5°	1206	1198	1198	1206	1200	114
15°	1134	1136	1132	1140	1133	319
25°	1018	1022	1038	1052	1041	469
35°	875	879	904	914	908	545
45°	703	706	736	746	744	542
55°	526	538	557	565	560	472
65°	352	360	371	370	364	348
75°	176	177	183	170	160	186
85°	31	30	30	24	22	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1211.0	1211.0	1211.0	1211.0	1211.0
2.5°	1216.9	1211.0	1203.0	1209.7	1208.3
5°	1206.4	1198.4	1197.7	1205.7	1199.7
7.5°	1193.1	1191.8	1183.8	1192.4	1189.1
10°	1175.9	1174.6	1171.9	1177.9	1173.2
12.5°	1155.4	1154.0	1155.4	1158.7	1155.4
15°	1133.5	1135.5	1132.2	1139.5	1132.9
17.5°	1104.4	1106.4	1113.0	1115.6	1115.0
20°	1080.6	1081.9	1089.8	1100.4	1089.2
22.5°	1049.4	1052.7	1056.7	1075.9	1073.3
25°	1017.7	1022.3	1037.5	1052.1	1040.8
27.5°	984.5	989.2	1007.7	1018.3	1017.0
30°	948.8	953.4	976.6	991.2	984.5
32.5°	911.7	919.7	944.8	957.4	944.8
35°	875.3	879.3	903.8	913.7	907.7
37.5°	827.0	842.2	866.7	873.3	862.7
40°	790.6	791.2	826.3	826.3	825.6
42.5°	743.5	754.1	777.3	789.9	783.3
45°	703.2	706.5	736.3	745.5	743.5
47.5°	658.8	672.0	693.9	704.5	699.2
50°	615.1	624.4	646.9	660.8	655.5
52.5°	574.7	582.0	605.2	613.1	607.8
55°	525.7	537.6	556.8	564.8	560.1
57.5°	483.3	491.9	515.8	518.4	515.8
60°	439.0	448.9	468.1	470.1	464.8
62.5°	396.6	403.2	420.4	421.1	415.1
65°	351.6	359.5	371.4	370.1	364.2
67.5°	307.2	312.5	323.8	319.1	312.5
70°	262.2	266.8	276.1	269.5	263.5
72.5°	218.5	221.8	229.7	219.8	212.5
75°	175.5	176.8	182.7	170.2	159.6
77.5°	133.1	134.4	137.7	125.1	113.2
80°	94.7	94.7	96.0	82.8	74.8
82.5°	59.6	59.6	58.9	49.0	44.4
85°	31.1	30.5	29.8	23.8	21.8
87.5°	11.3	11.3	9.3	8.6	9.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)