

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: P485112

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-1STD-27-120-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: P485112
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-27-120-EDD-90
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

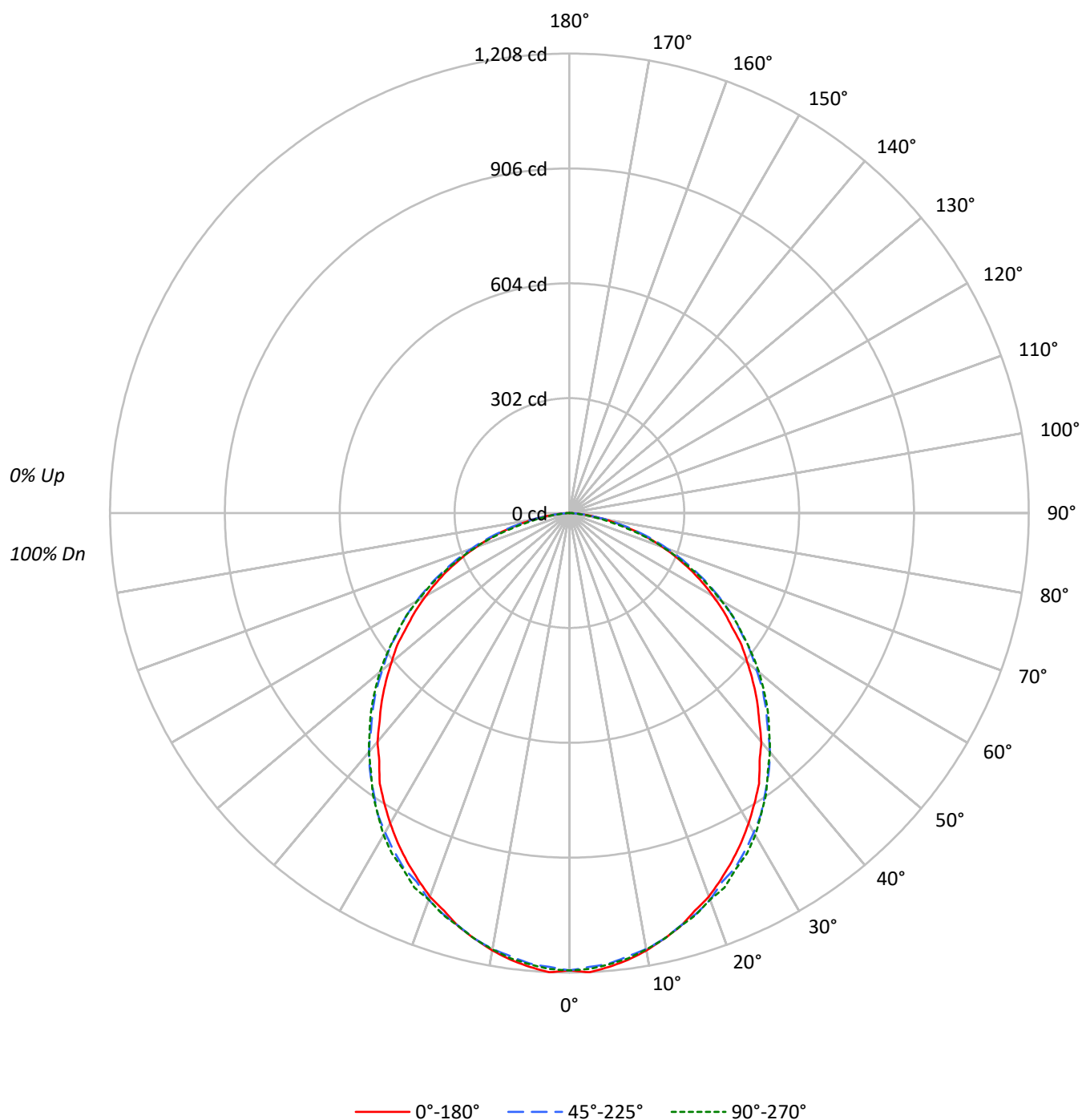
Lumens per Lamp: N/A
Luminaire Lumens: 3088.3 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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					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°	3235	3235	3235
5°	3235	3212	3218
10°	3190	3180	3183
15°	3135	3132	3134
20°	3072	3099	3097
25°	3000	3059	3068
30°	2927	3013	3037
35°	2855	2948	2961
40°	2757	2882	2880
45°	2657	2782	2809
50°	2557	2689	2725
55°	2449	2594	2609
60°	2345	2502	2484
65°	2223	2348	2302
70°	2048	2157	2058
75°	1811	1886	1647
80°	1457	1477	1151
85°	954	914	670



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.0	3.7
10°-20°	317.8	10.3
20°-30°	473.1	15.3
30°-40°	556.9	18.0
40°-50°	558.3	18.1
50°-60°	489.6	15.9
60°-70°	358.0	11.6
70°-80°	184.5	6.0
80°-90°	37.0	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°	903.9	29.3
0°-40°	1460.8	47.3
0°-60°	2508.7	81.2
0°-90°	3088.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3088.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1202	1202	1202	1202	1202	
5°	1198	1190	1189	1197	1191	113
15°	1125	1127	1124	1131	1125	317
25°	1010	1015	1030	1045	1033	465
35°	869	873	897	907	901	541
45°	698	701	731	740	738	538
55°	522	534	553	561	556	469
65°	349	357	369	368	362	345
75°	174	176	181	169	158	185
85°	31	30	30	24	22	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1202.3	1202.3	1202.3	1202.3	1202.3
2.5°	1208.3	1202.3	1194.5	1201.0	1199.7
5°	1197.7	1189.9	1189.2	1197.1	1191.2
7.5°	1184.6	1183.3	1175.4	1183.9	1180.7
10°	1167.5	1166.2	1163.6	1169.5	1164.9
12.5°	1147.1	1145.8	1147.1	1150.4	1147.1
15°	1125.4	1127.4	1124.1	1131.3	1124.8
17.5°	1096.5	1098.5	1105.1	1107.7	1107.0
20°	1072.8	1074.2	1082.0	1092.6	1081.4
22.5°	1041.9	1045.2	1049.2	1068.2	1065.6
25°	1010.4	1015.0	1030.1	1044.6	1033.4
27.5°	977.5	982.1	1000.5	1011.0	1009.7
30°	942.0	946.6	969.6	984.1	977.5
32.5°	905.2	913.1	938.1	950.6	938.1
35°	869.1	873.0	897.3	907.2	901.3
37.5°	821.1	836.2	860.5	867.1	856.6
40°	784.9	785.6	820.4	820.4	819.8
42.5°	738.2	748.8	771.8	784.3	777.7
45°	698.1	701.4	731.0	740.2	738.2
47.5°	654.1	667.2	688.9	699.5	694.2
50°	610.7	619.9	642.3	656.1	650.8
52.5°	570.6	577.8	600.8	608.7	603.5
55°	522.0	533.8	552.9	560.7	556.1
57.5°	479.9	488.4	512.1	514.7	512.1
60°	435.8	445.7	464.8	466.7	461.5
62.5°	393.8	400.3	417.4	418.1	412.2
65°	349.1	357.0	368.8	367.5	361.6
67.5°	305.0	310.3	321.5	316.9	310.3
70°	260.3	264.9	274.1	267.6	261.6
72.5°	216.9	220.2	228.1	218.2	211.0
75°	174.2	175.5	181.4	168.9	158.4
77.5°	132.1	133.4	136.7	124.2	112.4
80°	94.0	94.0	95.3	82.2	74.3
82.5°	59.2	59.2	58.5	48.6	44.0
85°	30.9	30.2	29.6	23.7	21.7
87.5°	11.2	11.2	9.2	8.5	9.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)