

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: P485087

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-1HI-20-120-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: P485087
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-LD4-1HI-20-120-EDD
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

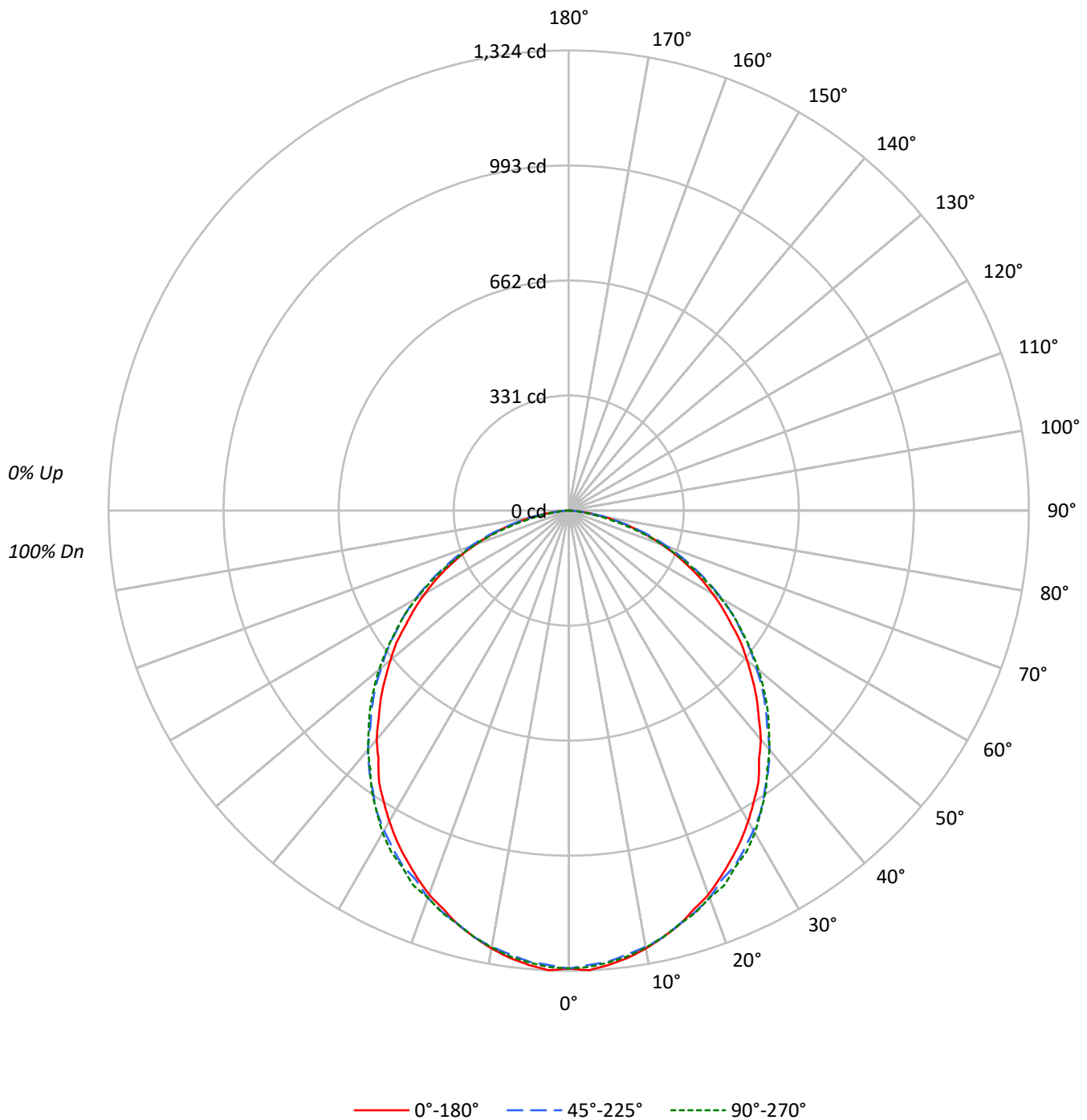
Lumens per Lamp: N/A
Luminaire Lumens: 3383.9 lumens
Efficiency: N/A
Efficacy: 76.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 44
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°	3545	3545	3545
5°	3545	3520	3526
10°	3496	3484	3488
15°	3436	3431	3433
20°	3366	3395	3393
25°	3287	3351	3362
30°	3207	3301	3328
35°	3128	3230	3244
40°	3021	3158	3155
45°	2911	3048	3078
50°	2802	2946	2985
55°	2683	2842	2859
60°	2570	2741	2722
65°	2436	2573	2523
70°	2244	2364	2256
75°	1985	2067	1805
80°	1596	1618	1261
85°	1047	1000	735



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.8	3.7
10°-20°	348.2	10.3
20°-30°	518.4	15.3
30°-40°	610.2	18.0
40°-50°	611.8	18.1
50°-60°	536.5	15.9
60°-70°	392.3	11.6
70°-80°	202.2	6.0
80°-90°	40.6	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°	990.4	29.3
0°-40°	1600.6	47.3
0°-60°	2748.9	81.2
0°-90°	3383.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3383.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1317	1317	1317	1317	1317	
5°	1312	1304	1303	1312	1305	124
15°	1233	1235	1232	1240	1232	347
25°	1107	1112	1129	1145	1132	510
35°	952	957	983	994	988	593
45°	765	769	801	811	809	590
55°	572	585	606	614	609	513
65°	382	391	404	403	396	378
75°	191	192	199	185	174	202
85°	34	33	32	26	24	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1317.4	1317.4	1317.4	1317.4	1317.4
2.5°	1323.9	1317.4	1308.8	1316.0	1314.5
5°	1312.4	1303.7	1303.0	1311.7	1305.2
7.5°	1298.0	1296.5	1287.9	1297.3	1293.7
10°	1279.3	1277.8	1274.9	1281.4	1276.4
12.5°	1256.9	1255.5	1256.9	1260.5	1256.9
15°	1233.2	1235.3	1231.7	1239.6	1232.4
17.5°	1201.5	1203.6	1210.8	1213.7	1213.0
20°	1175.5	1177.0	1185.6	1197.1	1184.9
22.5°	1141.7	1145.3	1149.6	1170.5	1167.6
25°	1107.1	1112.1	1128.7	1144.6	1132.3
27.5°	1071.1	1076.1	1096.3	1107.8	1106.4
30°	1032.2	1037.2	1062.4	1078.3	1071.1
32.5°	991.9	1000.5	1027.9	1041.6	1027.9
35°	952.2	956.6	983.2	994.0	987.5
37.5°	899.7	916.2	942.9	950.1	938.6
40°	860.0	860.8	898.9	898.9	898.2
42.5°	808.9	820.4	845.6	859.3	852.1
45°	765.0	768.6	801.0	811.1	808.9
47.5°	716.7	731.1	754.9	766.4	760.6
50°	669.2	679.2	703.7	718.9	713.1
52.5°	625.2	633.1	658.4	667.0	661.2
55°	571.9	584.9	605.8	614.4	609.4
57.5°	525.8	535.2	561.1	564.0	561.1
60°	477.6	488.4	509.3	511.4	505.7
62.5°	431.5	438.7	457.4	458.1	451.6
65°	382.5	391.1	404.1	402.6	396.2
67.5°	334.2	340.0	352.2	347.2	340.0
70°	285.2	290.3	300.4	293.2	286.7
72.5°	237.7	241.3	249.9	239.1	231.2
75°	190.9	192.3	198.8	185.1	173.6
77.5°	144.8	146.2	149.8	136.1	123.2
80°	103.0	103.0	104.4	90.0	81.4
82.5°	64.8	64.8	64.1	53.3	48.3
85°	33.9	33.1	32.4	25.9	23.8
87.5°	12.2	12.2	10.1	9.4	10.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)