

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: P485116

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-1STD-35-120-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: P485116
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-35-120-EDD-90
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

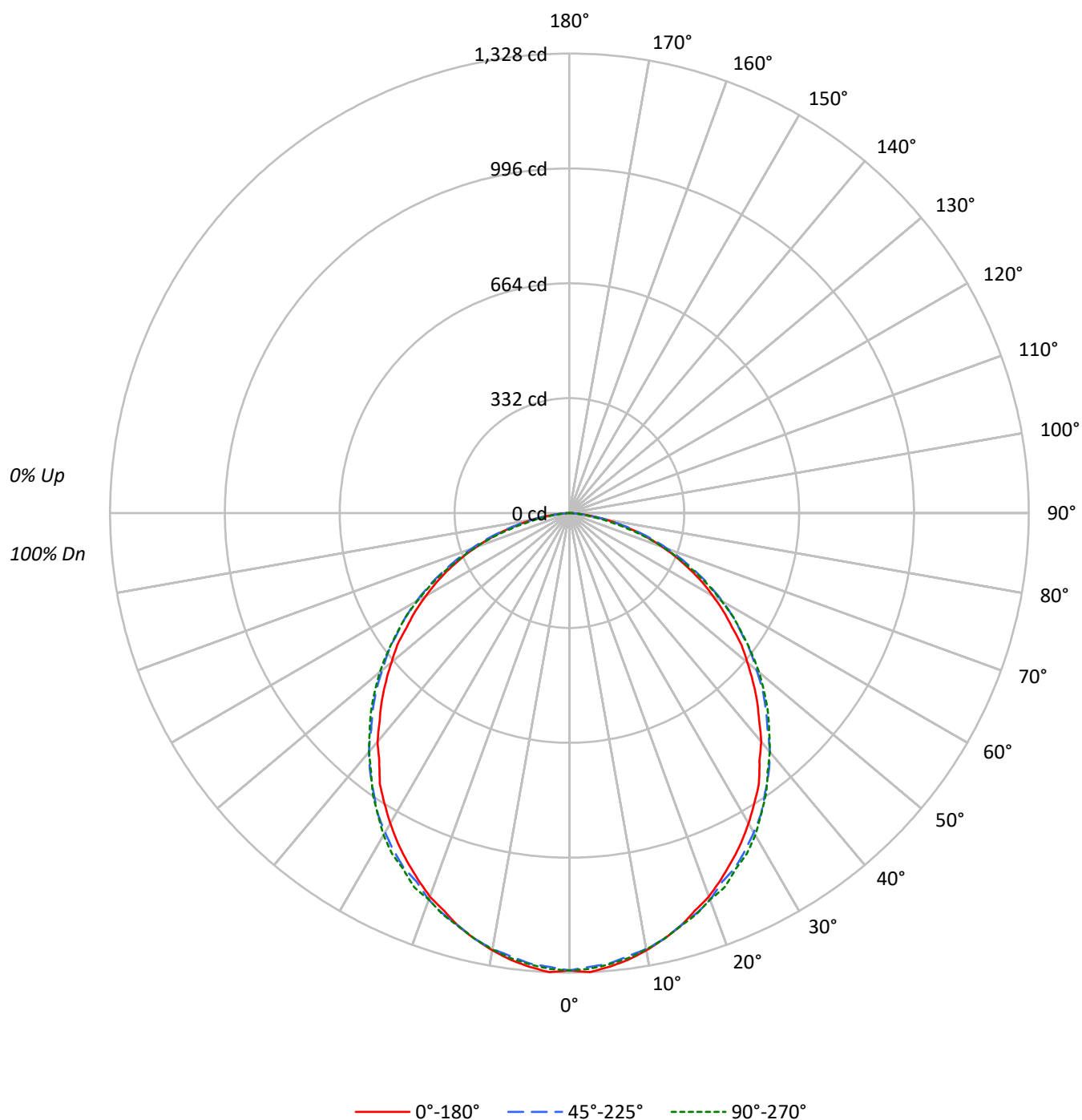
Lumens per Lamp: N/A
Luminaire Lumens: 3394.7 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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					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°	3556	3556	3556
5°	3556	3531	3537
10°	3507	3495	3499
15°	3446	3442	3444
20°	3377	3406	3404
25°	3298	3362	3373
30°	3218	3312	3339
35°	3138	3240	3255
40°	3031	3168	3165
45°	2920	3058	3088
50°	2810	2956	2995
55°	2692	2851	2868
60°	2578	2750	2730
65°	2443	2581	2530
70°	2251	2371	2263
75°	1991	2073	1810
80°	1601	1624	1266
85°	1050	1003	735



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.2	3.7
10°-20°	349.3	10.3
20°-30°	520.0	15.3
30°-40°	612.1	18.0
40°-50°	613.7	18.1
50°-60°	538.2	15.9
60°-70°	393.6	11.6
70°-80°	202.8	6.0
80°-90°	40.7	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°	993.6	29.3
0°-40°	1605.7	47.3
0°-60°	2757.6	81.2
0°-90°	3394.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3394.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1322	1322	1322	1322	1322	
5°	1317	1308	1307	1316	1309	125
15°	1237	1239	1236	1244	1236	348
25°	1111	1116	1132	1148	1136	512
35°	955	960	986	997	991	595
45°	767	771	804	814	812	591
55°	574	587	608	616	611	515
65°	384	392	405	404	397	380
75°	192	193	199	186	174	203
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°	1321.6	1321.6	1321.6	1321.6	1321.6
2.5°	1328.1	1321.6	1313.0	1320.2	1318.7
5°	1316.6	1307.9	1307.2	1315.9	1309.3
7.5°	1302.1	1300.7	1292.0	1301.4	1297.8
10°	1283.3	1281.9	1279.0	1285.5	1280.4
12.5°	1260.9	1259.5	1260.9	1264.5	1260.9
15°	1237.1	1239.3	1235.6	1243.6	1236.4
17.5°	1205.3	1207.5	1214.7	1217.6	1216.9
20°	1179.3	1180.7	1189.4	1201.0	1188.7
22.5°	1145.3	1148.9	1153.3	1174.2	1171.3
25°	1110.6	1115.7	1132.3	1148.2	1135.9
27.5°	1074.5	1079.6	1099.8	1111.4	1109.9
30°	1035.5	1040.5	1065.8	1081.7	1074.5
32.5°	995.0	1003.7	1031.1	1044.9	1031.1
35°	955.3	959.6	986.3	997.2	990.7
37.5°	902.5	919.1	945.9	953.1	941.5
40°	862.8	863.5	901.8	901.8	901.1
42.5°	811.5	823.0	848.3	862.1	854.8
45°	767.4	771.0	803.5	813.6	811.5
47.5°	719.0	733.4	757.3	768.8	763.1
50°	671.3	681.4	706.0	721.2	715.4
52.5°	627.2	635.2	660.5	669.1	663.3
55°	573.7	586.8	607.7	616.4	611.3
57.5°	527.5	536.9	562.9	565.8	562.9
60°	479.1	489.9	510.9	513.0	507.3
62.5°	432.8	440.1	458.9	459.6	453.1
65°	383.7	392.4	405.4	403.9	397.4
67.5°	335.3	341.1	353.4	348.3	341.1
70°	286.1	291.2	301.3	294.1	287.6
72.5°	238.5	242.1	250.7	239.9	232.0
75°	191.5	192.9	199.4	185.7	174.1
77.5°	145.2	146.7	150.3	136.6	123.6
80°	103.3	103.3	104.8	90.3	81.7
82.5°	65.0	65.0	64.3	53.5	48.4
85°	34.0	33.2	32.5	26.0	23.8
87.5°	12.3	12.3	10.1	9.4	10.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)