

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: P485118

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-1STD-40-120-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: P485118
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-40-120-EDD-90
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

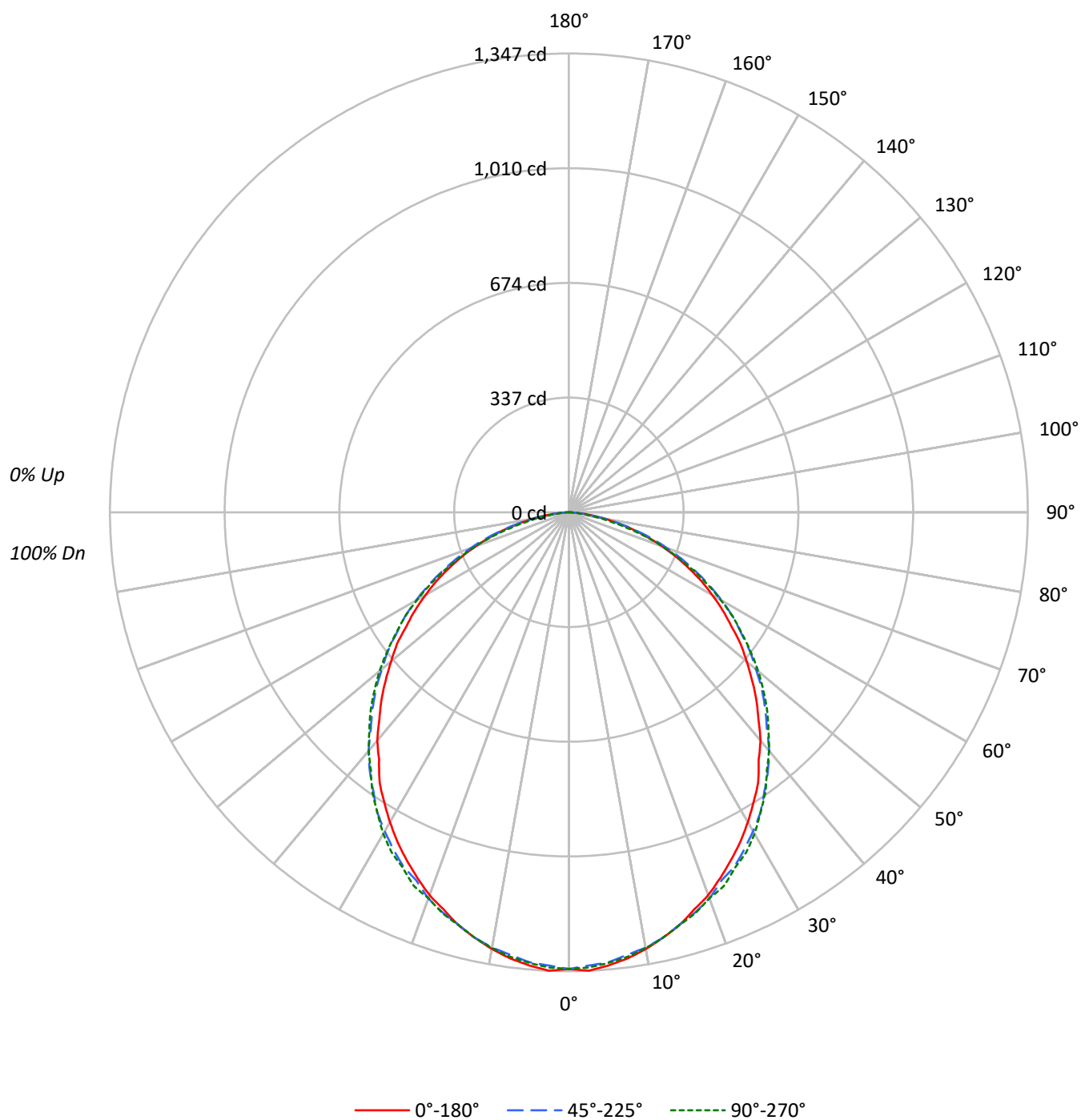
Lumens per Lamp: N/A
Luminaire Lumens: 3442.9 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	3607	3607	3607
5°	3607	3581	3587
10°	3557	3545	3548
15°	3495	3491	3493
20°	3425	3454	3452
25°	3344	3410	3421
30°	3263	3359	3386
35°	3183	3286	3301
40°	3074	3213	3210
45°	2962	3101	3132
50°	2850	2997	3037
55°	2730	2891	2909
60°	2615	2788	2769
65°	2478	2618	2567
70°	2283	2404	2295
75°	2019	2103	1836
80°	1624	1647	1283
85°	1062	1019	747



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.0	3.7
10°-20°	354.3	10.3
20°-30°	527.4	15.3
30°-40°	620.8	18.0
40°-50°	622.5	18.1
50°-60°	545.8	15.9
60°-70°	399.1	11.6
70°-80°	205.7	6.0
80°-90°	41.3	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°	1007.7	29.3
0°-40°	1628.5	47.3
0°-60°	2796.8	81.2
0°-90°	3442.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3442.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1340	1340	1340	1340	1340	
5°	1335	1326	1326	1334	1328	126
15°	1255	1257	1253	1261	1254	353
25°	1126	1132	1148	1164	1152	519
35°	969	973	1000	1011	1005	603
45°	778	782	815	825	823	600
55°	582	595	616	625	620	522
65°	389	398	411	410	403	385
75°	194	196	202	188	177	206
85°	34	34	33	26	24	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1340.4	1340.4	1340.4	1340.4	1340.4
2.5°	1347.0	1340.4	1331.6	1338.9	1337.5
5°	1335.3	1326.5	1325.7	1334.5	1327.9
7.5°	1320.6	1319.1	1310.4	1319.9	1316.2
10°	1301.6	1300.1	1297.2	1303.8	1298.6
12.5°	1278.8	1277.4	1278.8	1282.5	1278.8
15°	1254.7	1256.9	1253.2	1261.2	1253.9
17.5°	1222.4	1224.6	1231.9	1234.9	1234.1
20°	1196.0	1197.5	1206.3	1218.0	1205.6
22.5°	1161.6	1165.2	1169.6	1190.9	1188.0
25°	1126.4	1131.5	1148.4	1164.5	1152.1
27.5°	1089.8	1094.9	1115.4	1127.1	1125.7
30°	1050.2	1055.3	1081.0	1097.1	1089.8
32.5°	1009.1	1017.9	1045.8	1059.7	1045.8
35°	968.8	973.2	1000.4	1011.3	1004.7
37.5°	915.3	932.2	959.3	966.6	954.9
40°	875.0	875.8	914.6	914.6	913.9
42.5°	823.0	834.7	860.4	874.3	867.0
45°	778.3	782.0	814.9	825.2	823.0
47.5°	729.2	743.9	768.0	779.8	773.9
50°	680.8	691.1	716.0	731.4	725.5
52.5°	636.1	644.2	669.8	678.6	672.8
55°	581.9	595.1	616.3	625.1	620.0
57.5°	535.0	544.5	570.9	573.8	570.9
60°	485.9	496.9	518.1	520.3	514.5
62.5°	439.0	446.3	465.4	466.1	459.5
65°	389.1	397.9	411.1	409.7	403.1
67.5°	340.0	345.9	358.4	353.2	345.9
70°	290.2	295.3	305.6	298.3	291.7
72.5°	241.8	245.5	254.3	243.3	235.2
75°	194.2	195.7	202.3	188.3	176.6
77.5°	147.3	148.8	152.4	138.5	125.3
80°	104.8	104.8	106.3	91.6	82.8
82.5°	66.0	66.0	65.2	54.2	49.1
85°	34.4	33.7	33.0	26.4	24.2
87.5°	12.5	12.5	10.3	9.5	10.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)