

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: P485930

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-3LO-30-120-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: P485930
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-24-2-INS-A125-LD4-3LO-30-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

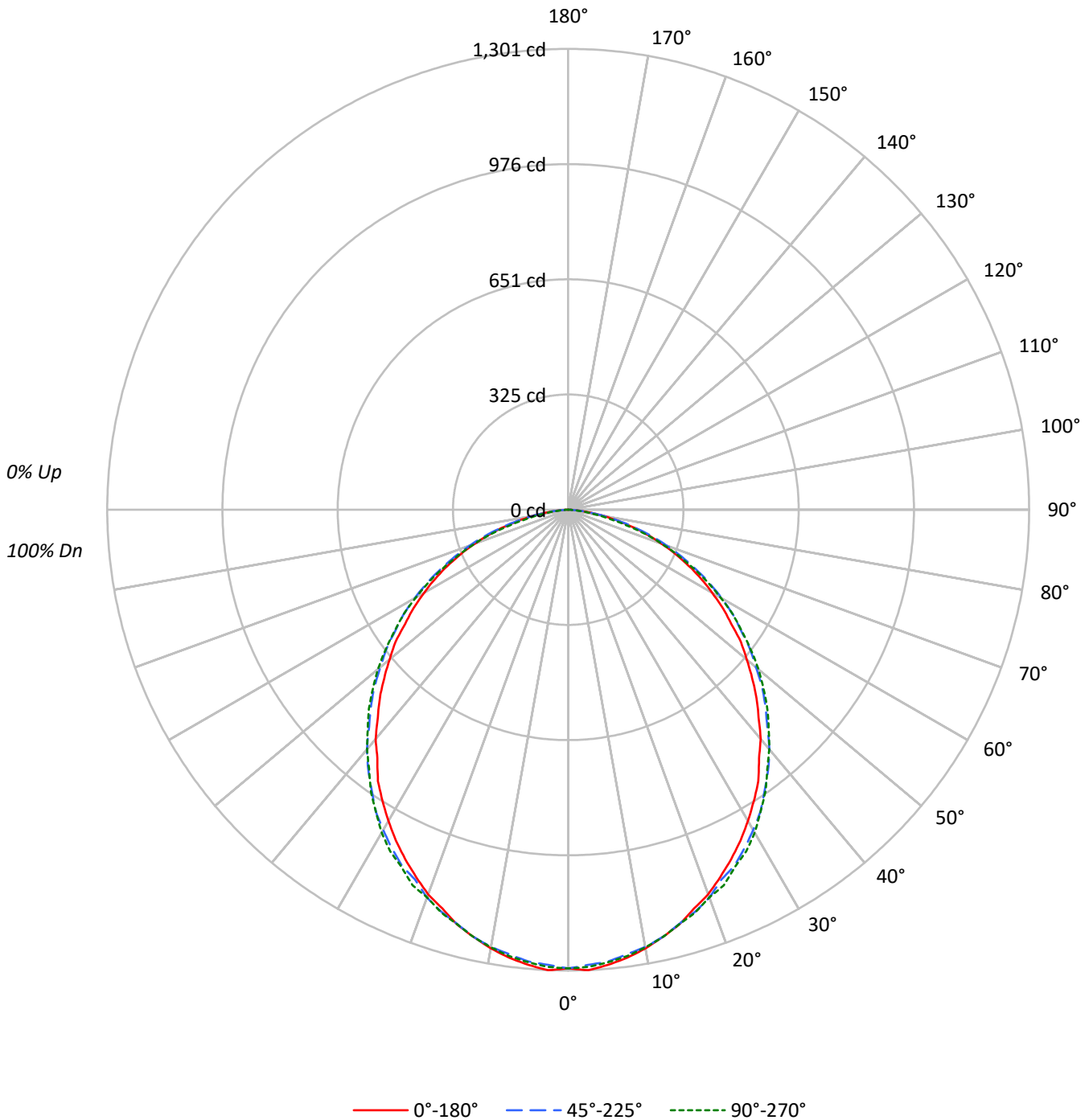
Lumens per Lamp: N/A
Luminaire Lumens: 3326.0 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
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	0
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°	3485	3485	3485
5°	3484	3460	3465
10°	3436	3424	3428
15°	3377	3373	3375
20°	3309	3337	3335
25°	3231	3294	3304
30°	3152	3245	3271
35°	3075	3175	3188
40°	2969	3104	3101
45°	2861	2996	3026
50°	2753	2896	2934
55°	2637	2793	2810
60°	2526	2694	2675
65°	2394	2529	2479
70°	2206	2323	2217
75°	1951	2032	1774
80°	1568	1592	1240
85°	1028	985	722



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.7	3.7
10°-20°	342.2	10.3
20°-30°	509.5	15.3
30°-40°	599.7	18.0
40°-50°	601.3	18.1
50°-60°	527.3	15.9
60°-70°	385.6	11.6
70°-80°	198.7	6.0
80°-90°	39.9	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°	973.5	29.3
0°-40°	1573.2	47.3
0°-60°	2701.8	81.2
0°-90°	3326.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3326.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1295	1295	1295	1295	1295	
5°	1290	1281	1281	1289	1283	122
15°	1212	1214	1211	1218	1211	341
25°	1088	1093	1109	1125	1113	501
35°	936	940	966	977	971	583
45°	752	755	787	797	795	579
55°	562	575	595	604	599	505
65°	376	384	397	396	389	372
75°	188	189	195	182	171	199
85°	33	33	32	26	23	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1294.9	1294.9	1294.9	1294.9	1294.9
2.5°	1301.3	1294.9	1286.4	1293.5	1292.1
5°	1289.9	1281.4	1280.7	1289.2	1282.9
7.5°	1275.8	1274.4	1265.9	1275.1	1271.5
10°	1257.4	1255.9	1253.1	1259.5	1254.5
12.5°	1235.4	1234.0	1235.4	1239.0	1235.4
15°	1212.1	1214.2	1210.6	1218.4	1211.3
17.5°	1180.9	1183.0	1190.1	1192.9	1192.2
20°	1155.4	1156.8	1165.3	1176.7	1164.6
22.5°	1122.1	1125.7	1129.9	1150.5	1147.6
25°	1088.2	1093.1	1109.4	1125.0	1112.9
27.5°	1052.8	1057.7	1077.5	1088.9	1087.4
30°	1014.5	1019.5	1044.3	1059.8	1052.8
32.5°	974.9	983.4	1010.3	1023.7	1010.3
35°	935.9	940.2	966.4	977.0	970.6
37.5°	884.3	900.5	926.7	933.8	922.5
40°	845.3	846.0	883.6	883.6	882.8
42.5°	795.1	806.4	831.2	844.6	837.5
45°	751.9	755.4	787.3	797.2	795.1
47.5°	704.4	718.6	742.0	753.3	747.6
50°	657.7	667.6	691.7	706.6	700.9
52.5°	614.5	622.3	647.1	655.6	649.9
55°	562.1	574.9	595.4	603.9	598.9
57.5°	516.8	526.0	551.5	554.3	551.5
60°	469.4	480.0	500.5	502.7	497.0
62.5°	424.1	431.2	449.6	450.3	443.9
65°	375.9	384.4	397.2	395.8	389.4
67.5°	328.5	334.2	346.2	341.2	334.2
70°	280.4	285.3	295.2	288.1	281.8
72.5°	233.6	237.2	245.7	235.0	227.3
75°	187.6	189.0	195.4	181.9	170.6
77.5°	142.3	143.7	147.3	133.8	121.1
80°	101.2	101.2	102.7	88.5	80.0
82.5°	63.7	63.7	63.0	52.4	47.4
85°	33.3	32.6	31.9	25.5	23.4
87.5°	12.0	12.0	9.9	9.2	9.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)