

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: P485864

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-1LO-50-120-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: P485864
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-LD4-1LO-50-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

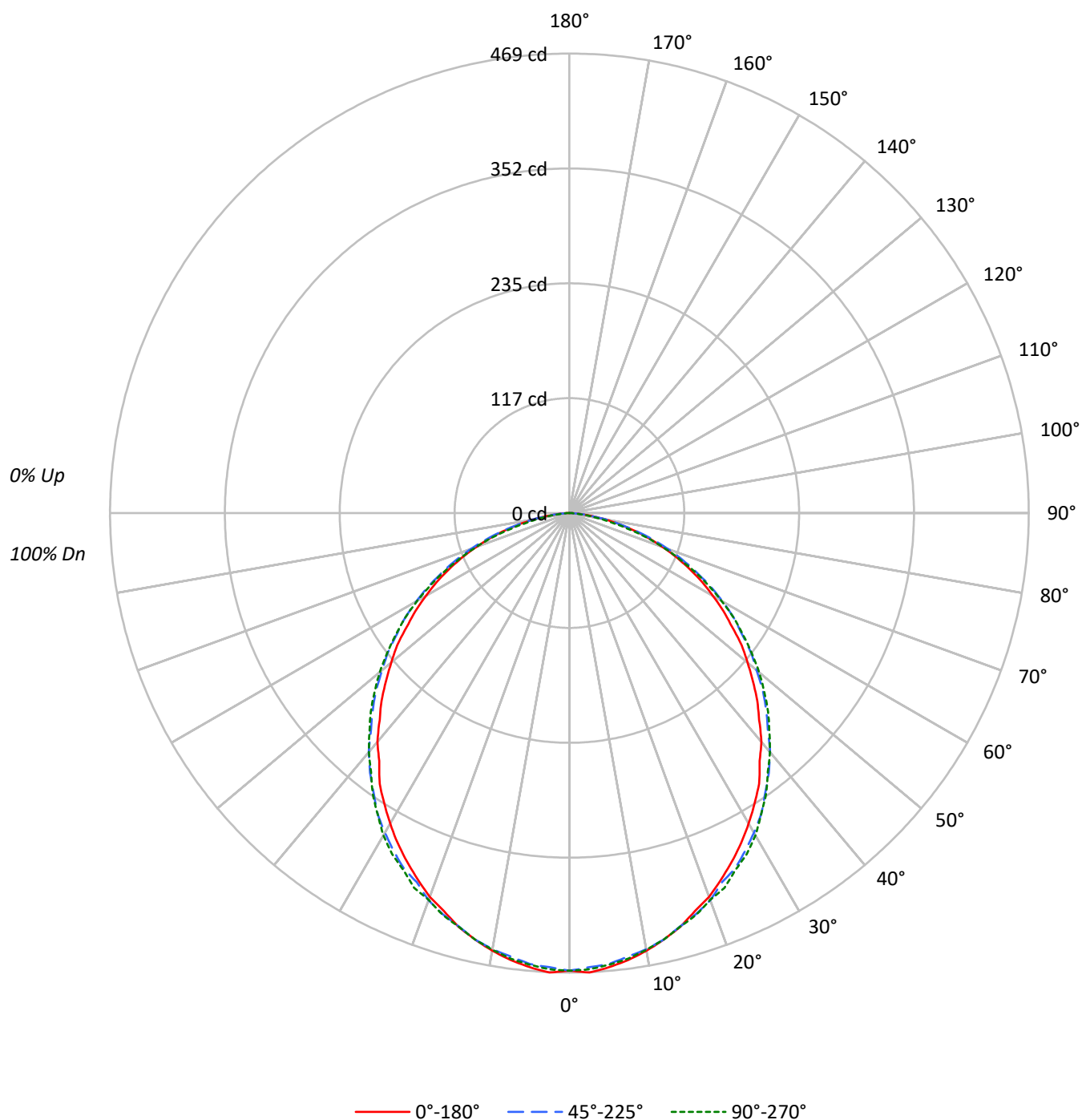
Lumens per Lamp: N/A
Luminaire Lumens: 1199.8 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
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°	1257	1257	1257
5°	1257	1248	1250
10°	1239	1235	1237
15°	1218	1217	1217
20°	1194	1204	1203
25°	1165	1188	1192
30°	1137	1171	1180
35°	1109	1145	1150
40°	1071	1120	1119
45°	1032	1081	1091
50°	993	1045	1058
55°	951	1008	1014
60°	911	972	965
65°	863	912	895
70°	795	838	799
75°	704	733	639
80°	566	573	448
85°	371	355	259



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.9	3.7
10°-20°	123.5	10.3
20°-30°	183.8	15.3
30°-40°	216.3	18.0
40°-50°	216.9	18.1
50°-60°	190.2	15.9
60°-70°	139.1	11.6
70°-80°	71.7	6.0
80°-90°	14.4	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°	351.2	29.3
0°-40°	567.5	47.3
0°-60°	974.6	81.2
0°-90°	1199.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1199.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	467	467	467	467	467	
5°	465	462	462	465	463	44
15°	437	438	437	440	437	123
25°	392	394	400	406	402	181
35°	338	339	349	352	350	210
45°	271	272	284	288	287	209
55°	203	207	215	218	216	182
65°	136	139	143	143	140	134
75°	68	68	70	66	62	72
85°	12	12	12	9	8	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	467.1	467.1	467.1	467.1	467.1
2.5°	469.4	467.1	464.0	466.6	466.1
5°	465.3	462.3	462.0	465.1	462.8
7.5°	460.2	459.7	456.6	460.0	458.7
10°	453.6	453.1	452.0	454.3	452.6
12.5°	445.7	445.1	445.7	446.9	445.7
15°	437.2	438.0	436.7	439.5	437.0
17.5°	426.0	426.8	429.3	430.3	430.1
20°	416.8	417.3	420.4	424.5	420.1
22.5°	404.8	406.1	407.6	415.0	414.0
25°	392.5	394.3	400.2	405.8	401.5
27.5°	379.8	381.6	388.7	392.8	392.3
30°	366.0	367.8	376.7	382.3	379.8
32.5°	351.7	354.7	364.4	369.3	364.4
35°	337.6	339.2	348.6	352.4	350.1
37.5°	319.0	324.9	334.3	336.9	332.8
40°	304.9	305.2	318.7	318.7	318.5
42.5°	286.8	290.9	299.8	304.7	302.1
45°	271.2	272.5	284.0	287.6	286.8
47.5°	254.1	259.2	267.6	271.7	269.7
50°	237.3	240.8	249.5	254.9	252.8
52.5°	221.7	224.5	233.4	236.5	234.4
55°	202.8	207.4	214.8	217.8	216.1
57.5°	186.4	189.8	198.9	200.0	198.9
60°	169.3	173.2	180.6	181.3	179.3
62.5°	153.0	155.5	162.2	162.4	160.1
65°	135.6	138.7	143.3	142.8	140.5
67.5°	118.5	120.5	124.9	123.1	120.5
70°	101.1	102.9	106.5	103.9	101.6
72.5°	84.3	85.6	88.6	84.8	82.0
75°	67.7	68.2	70.5	65.6	61.5
77.5°	51.3	51.8	53.1	48.3	43.7
80°	36.5	36.5	37.0	31.9	28.9
82.5°	23.0	23.0	22.7	18.9	17.1
85°	12.0	11.7	11.5	9.2	8.4
87.5°	4.3	4.3	3.6	3.3	3.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)