

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: P485843

Luminaire Tested: **ORLG-24-2-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: P485843
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-LD4-1HI-20-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

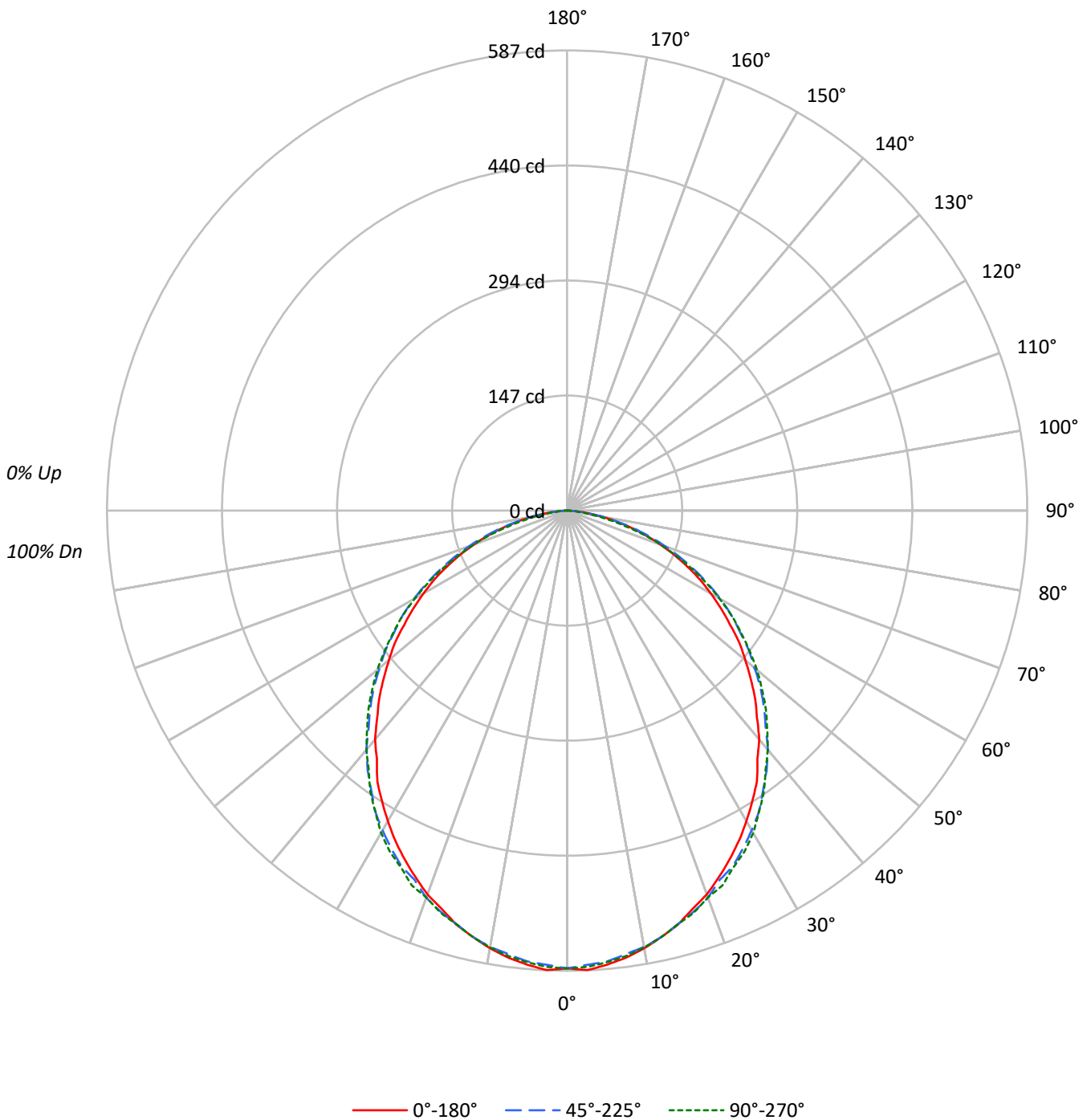
Lumens per Lamp: N/A
Luminaire Lumens: 1499.7 lumens
Efficiency: N/A
Efficacy: 68.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 22
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	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					100			
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85					85			
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71					71			
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60					60			
4	83	72	63	57	81	70	62	56	68	61	55	66	59	55	63	58	54	52					52			
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39					39			
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31					31			
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1571	1571	1571
5°	1571	1560	1562
10°	1549	1544	1546
15°	1522	1521	1522
20°	1492	1505	1504
25°	1457	1485	1490
30°	1422	1463	1475
35°	1386	1431	1438
40°	1339	1400	1398
45°	1290	1351	1364
50°	1242	1306	1323
55°	1189	1260	1267
60°	1139	1215	1206
65°	1079	1140	1118
70°	995	1047	1000
75°	880	916	800
80°	707	717	559
85°	463	445	324



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.9	3.7
10°-20°	154.3	10.3
20°-30°	229.8	15.3
30°-40°	270.4	18.0
40°-50°	271.1	18.1
50°-60°	237.8	15.9
60°-70°	173.9	11.6
70°-80°	89.6	6.0
80°-90°	18.0	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°	438.9	29.3
0°-40°	709.4	47.3
0°-60°	1218.3	81.2
0°-90°	1499.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1499.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	584	584	584	584	584	
5°	582	578	578	581	578	55
15°	546	548	546	549	546	154
25°	491	493	500	507	502	226
35°	422	424	436	440	438	263
45°	339	341	355	359	358	261
55°	254	259	268	272	270	228
65°	170	173	179	178	176	168
75°	85	85	88	82	77	90
85°	15	15	14	12	10	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	583.9	583.9	583.9	583.9	583.9
2.5°	586.7	583.9	580.0	583.2	582.6
5°	581.6	577.8	577.5	581.3	578.4
7.5°	575.2	574.6	570.8	574.9	573.3
10°	566.9	566.3	565.0	567.9	565.7
12.5°	557.1	556.4	557.1	558.6	557.1
15°	546.5	547.5	545.9	549.4	546.2
17.5°	532.5	533.4	536.6	537.9	537.6
20°	521.0	521.6	525.4	530.6	525.1
22.5°	506.0	507.6	509.5	518.7	517.5
25°	490.7	492.9	500.2	507.3	501.8
27.5°	474.7	476.9	485.9	491.0	490.3
30°	457.5	459.7	470.9	477.9	474.7
32.5°	439.6	443.4	455.5	461.6	455.5
35°	422.0	423.9	435.7	440.5	437.7
37.5°	398.7	406.1	417.9	421.1	416.0
40°	381.2	381.5	398.4	398.4	398.1
42.5°	358.5	363.6	374.8	380.8	377.6
45°	339.0	340.6	355.0	359.4	358.5
47.5°	317.6	324.0	334.6	339.7	337.1
50°	296.6	301.0	311.9	318.6	316.0
52.5°	277.1	280.6	291.8	295.6	293.1
55°	253.5	259.2	268.5	272.3	270.1
57.5°	233.0	237.2	248.7	250.0	248.7
60°	211.6	216.4	225.7	226.7	224.1
62.5°	191.2	194.4	202.7	203.0	200.2
65°	169.5	173.3	179.1	178.4	175.6
67.5°	148.1	150.7	156.1	153.9	150.7
70°	126.4	128.6	133.1	129.9	127.1
72.5°	105.3	106.9	110.8	106.0	102.5
75°	84.6	85.2	88.1	82.0	76.9
77.5°	64.2	64.8	66.4	60.3	54.6
80°	45.6	45.6	46.3	39.9	36.1
82.5°	28.7	28.7	28.4	23.6	21.4
85°	15.0	14.7	14.4	11.5	10.5
87.5°	5.4	5.4	4.5	4.1	4.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)