

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: P485141

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-2LO-35-120-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: P485141
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-LD4-2LO-35-120-EDD
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

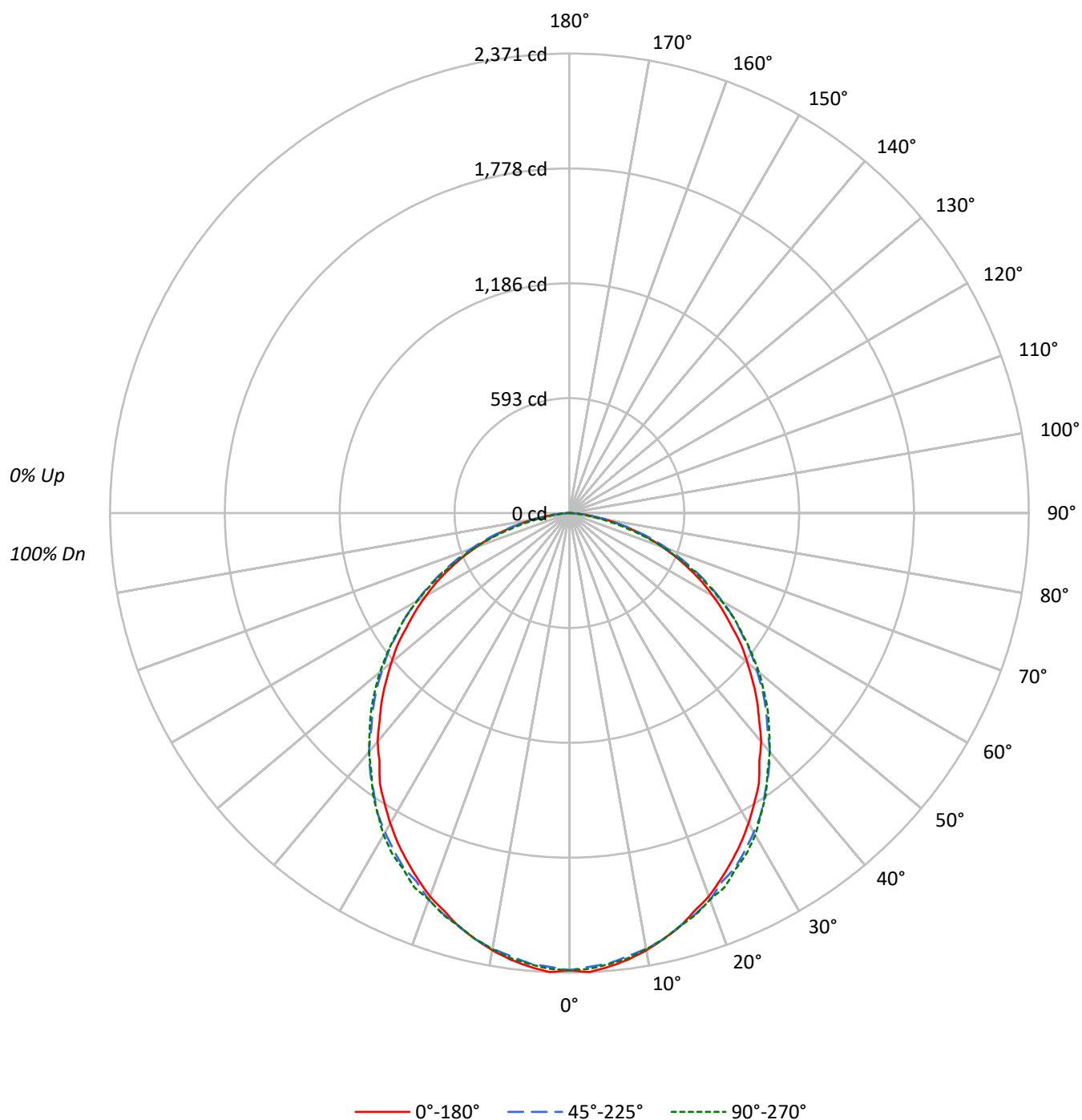
Lumens per Lamp: N/A
Luminaire Lumens: 6059.1 lumens
Efficiency: N/A
Efficacy: 129.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 46.8
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°	6348	6348	6348
5°	6348	6302	6313
10°	6259	6238	6245
15°	6151	6144	6148
20°	6028	6079	6076
25°	5886	6001	6020
30°	5743	5911	5959
35°	5601	5783	5809
40°	5410	5654	5650
45°	5213	5458	5512
50°	5016	5275	5345
55°	4805	5089	5119
60°	4602	4907	4873
65°	4361	4607	4517
70°	4018	4231	4039
75°	3554	3701	3231
80°	2858	2898	2258
85°	1871	1791	1315



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.7	3.7
10°-20°	623.5	10.3
20°-30°	928.2	15.3
30°-40°	1092.6	18.0
40°-50°	1095.5	18.1
50°-60°	960.6	15.9
60°-70°	702.4	11.6
70°-80°	362.0	6.0
80°-90°	72.6	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°	1773.4	29.3
0°-40°	2866.0	47.3
0°-60°	4922.1	81.2
0°-90°	6059.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6059.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2359	2359	2359	2359	2359	
5°	2350	2334	2333	2349	2337	222
15°	2208	2212	2206	2220	2207	621
25°	1982	1991	2021	2049	2028	913
35°	1705	1713	1760	1780	1768	1062
45°	1370	1376	1434	1452	1448	1056
55°	1024	1047	1085	1100	1091	919
65°	685	700	724	721	709	677
75°	342	344	356	332	311	362
85°	61	59	58	46	43	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2358.9	2358.9	2358.9	2358.9	2358.9
2.5°	2370.6	2358.9	2343.5	2356.4	2353.8
5°	2349.9	2334.4	2333.1	2348.6	2337.0
7.5°	2324.1	2321.5	2306.1	2322.8	2316.4
10°	2290.6	2288.0	2282.8	2294.5	2285.4
12.5°	2250.6	2248.0	2250.6	2257.1	2250.6
15°	2208.0	2211.9	2205.5	2219.7	2206.8
17.5°	2151.3	2155.2	2168.1	2173.2	2171.9
20°	2104.9	2107.4	2122.9	2143.6	2121.6
22.5°	2044.2	2050.7	2058.4	2095.8	2090.7
25°	1982.3	1991.4	2021.0	2049.4	2027.5
27.5°	1917.9	1926.9	1963.0	1983.6	1981.0
30°	1848.2	1857.2	1902.4	1930.7	1917.9
32.5°	1776.0	1791.5	1840.5	1865.0	1840.5
35°	1705.0	1712.8	1760.5	1779.8	1768.2
37.5°	1610.9	1640.6	1688.3	1701.2	1680.5
40°	1540.0	1541.2	1609.6	1609.6	1608.3
42.5°	1448.4	1469.0	1514.2	1538.7	1525.8
45°	1369.7	1376.2	1434.2	1452.3	1448.4
47.5°	1283.3	1309.1	1351.7	1372.3	1362.0
50°	1198.2	1216.2	1260.1	1287.2	1276.8
52.5°	1119.5	1133.7	1178.8	1194.3	1184.0
55°	1024.1	1047.3	1084.7	1100.2	1091.1
57.5°	941.5	958.3	1004.7	1009.9	1004.7
60°	855.1	874.4	911.8	915.7	905.4
62.5°	772.6	785.5	819.0	820.3	808.7
65°	684.9	700.3	723.5	721.0	709.4
67.5°	598.4	608.8	630.7	621.7	608.8
70°	510.7	519.8	537.8	524.9	513.3
72.5°	425.6	432.1	447.5	428.2	414.0
75°	341.8	344.4	356.0	331.5	310.8
77.5°	259.2	261.8	268.3	243.8	220.5
80°	184.4	184.4	187.0	161.2	145.7
82.5°	116.1	116.1	114.8	95.4	86.4
85°	60.6	59.3	58.0	46.4	42.6
87.5°	21.9	21.9	18.1	16.8	18.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)