

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: P486002

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-5LO-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: P486002
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-LD4-5LO-30-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

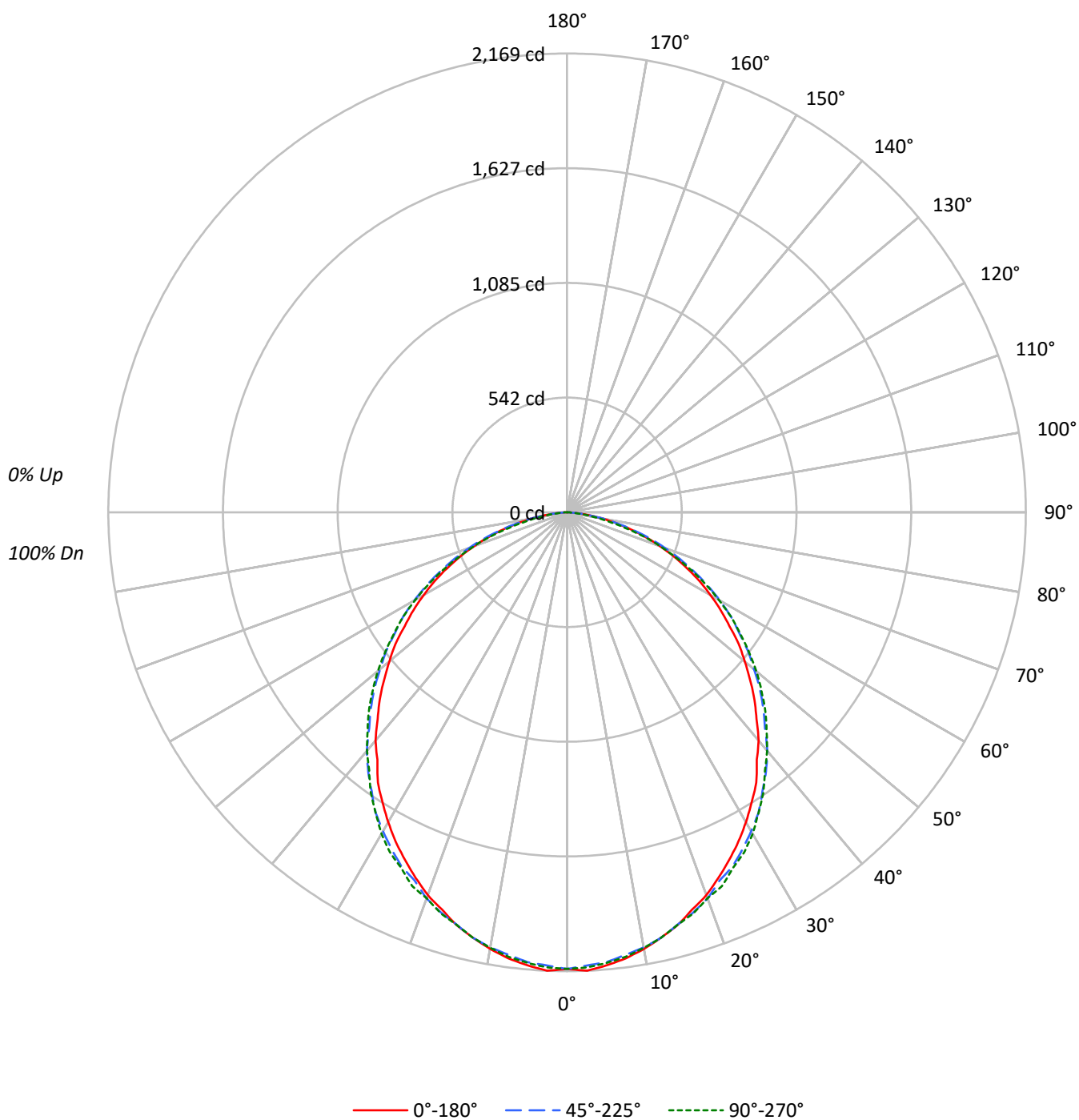
Lumens per Lamp: N/A
Luminaire Lumens: 5543.3 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 58.5
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	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°	5807	5807	5807
5°	5807	5766	5776
10°	5726	5707	5713
15°	5628	5621	5624
20°	5515	5562	5558
25°	5385	5490	5508
30°	5254	5408	5452
35°	5124	5291	5314
40°	4949	5173	5169
45°	4769	4993	5043
50°	4589	4826	4891
55°	4396	4655	4683
60°	4210	4490	4458
65°	3990	4215	4132
70°	3677	3871	3695
75°	3251	3386	2957
80°	2614	2651	2066
85°	1714	1639	1201



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.9	3.7
10°-20°	570.4	10.3
20°-30°	849.2	15.3
30°-40°	999.6	18.0
40°-50°	1002.2	18.1
50°-60°	878.8	15.9
60°-70°	642.6	11.6
70°-80°	331.2	6.0
80°-90°	66.4	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°	1622.4	29.3
0°-40°	2622.0	47.3
0°-60°	4503.0	81.2
0°-90°	5543.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5543.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2158	2158	2158	2158	2158	
5°	2150	2136	2134	2149	2138	203
15°	2020	2024	2018	2031	2019	569
25°	1814	1822	1849	1875	1855	835
35°	1560	1567	1611	1628	1618	971
45°	1253	1259	1312	1329	1325	966
55°	937	958	992	1006	998	841
65°	627	641	662	660	649	620
75°	313	315	326	303	284	331
85°	56	54	53	42	39	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2158.1	2158.1	2158.1	2158.1	2158.1
2.5°	2168.8	2158.1	2144.0	2155.8	2153.4
5°	2149.9	2135.7	2134.5	2148.7	2138.1
7.5°	2126.3	2123.9	2109.8	2125.1	2119.2
10°	2095.6	2093.2	2088.5	2099.1	2090.9
12.5°	2059.0	2056.7	2059.0	2064.9	2059.0
15°	2020.1	2023.6	2017.7	2030.7	2018.9
17.5°	1968.2	1971.7	1983.5	1988.2	1987.0
20°	1925.7	1928.0	1942.2	1961.1	1941.0
22.5°	1870.2	1876.1	1883.2	1917.4	1912.7
25°	1813.6	1821.8	1849.0	1874.9	1854.9
27.5°	1754.6	1762.8	1795.9	1814.8	1812.4
30°	1690.9	1699.1	1740.4	1766.4	1754.6
32.5°	1624.8	1639.0	1683.8	1706.2	1683.8
35°	1559.9	1567.0	1610.6	1628.3	1617.7
37.5°	1473.8	1500.9	1544.6	1556.4	1537.5
40°	1408.9	1410.0	1472.6	1472.6	1471.4
42.5°	1325.1	1344.0	1385.3	1407.7	1395.9
45°	1253.1	1259.0	1312.1	1328.6	1325.1
47.5°	1174.1	1197.7	1236.6	1255.5	1246.0
50°	1096.2	1112.7	1152.8	1177.6	1168.2
52.5°	1024.2	1037.2	1078.5	1092.6	1083.2
55°	936.9	958.1	992.3	1006.5	998.2
57.5°	861.4	876.7	919.2	923.9	919.2
60°	782.3	800.0	834.2	837.8	828.3
62.5°	706.8	718.6	749.3	750.4	739.8
65°	626.6	640.7	662.0	659.6	649.0
67.5°	547.5	556.9	577.0	568.7	556.9
70°	467.3	475.5	492.0	480.2	469.6
72.5°	389.4	395.3	409.4	391.7	378.8
75°	312.7	315.0	325.7	303.2	284.4
77.5°	237.2	239.5	245.4	223.0	201.8
80°	168.7	168.7	171.1	147.5	133.3
82.5°	106.2	106.2	105.0	87.3	79.1
85°	55.5	54.3	53.1	42.5	38.9
87.5°	20.1	20.1	16.5	15.3	16.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)