

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: P486006

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-5LO-40-120-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: P486006
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-40-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

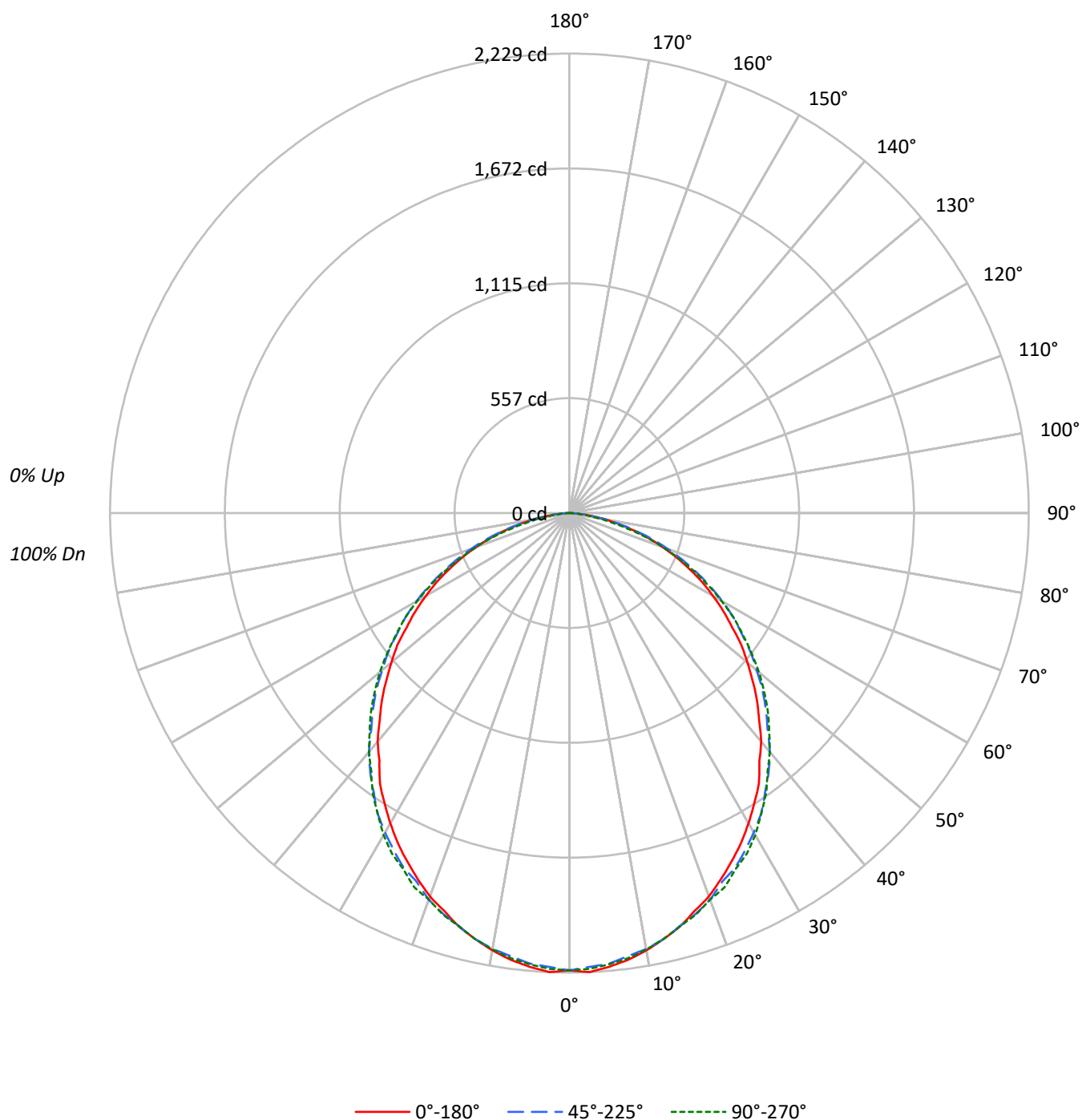
Lumens per Lamp: N/A
Luminaire Lumens: 5697.1 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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
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°	5969	5969	5969
5°	5968	5926	5936
10°	5885	5865	5872
15°	5784	5777	5780
20°	5668	5716	5713
25°	5534	5642	5660
30°	5400	5558	5603
35°	5267	5438	5462
40°	5087	5316	5312
45°	4901	5132	5183
50°	4716	4960	5026
55°	4518	4785	4813
60°	4327	4614	4582
65°	4100	4332	4247
70°	3778	3979	3798
75°	3342	3480	3039
80°	2687	2724	2123
85°	1760	1686	1235



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.5	3.7
10°-20°	586.2	10.3
20°-30°	872.8	15.3
30°-40°	1027.3	18.0
40°-50°	1030.0	18.1
50°-60°	903.2	15.9
60°-70°	660.5	11.6
70°-80°	340.4	6.0
80°-90°	68.3	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°	1667.5	29.3
0°-40°	2694.8	47.3
0°-60°	4628.0	81.2
0°-90°	5697.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5697.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2218	2218	2218	2218	2218	
5°	2210	2195	2194	2208	2197	209
15°	2076	2080	2074	2087	2075	584
25°	1864	1872	1900	1927	1906	859
35°	1603	1610	1655	1674	1663	998
45°	1288	1294	1348	1366	1362	993
55°	963	985	1020	1034	1026	864
65°	644	658	680	678	667	637
75°	321	324	335	312	292	341
85°	57	56	55	44	40	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2218.0	2218.0	2218.0	2218.0	2218.0
2.5°	2228.9	2218.0	2203.5	2215.6	2213.2
5°	2209.5	2195.0	2193.8	2208.3	2197.4
7.5°	2185.3	2182.8	2168.3	2184.1	2178.0
10°	2153.7	2151.3	2146.5	2157.4	2148.9
12.5°	2116.1	2113.7	2116.1	2122.2	2116.1
15°	2076.1	2079.8	2073.7	2087.0	2074.9
17.5°	2022.8	2026.4	2038.5	2043.4	2042.2
20°	1979.1	1981.5	1996.1	2015.5	1994.9
22.5°	1922.1	1928.2	1935.5	1970.6	1965.8
25°	1863.9	1872.4	1900.3	1927.0	1906.3
27.5°	1803.3	1811.8	1845.7	1865.1	1862.7
30°	1737.8	1746.3	1788.7	1815.4	1803.3
32.5°	1669.9	1684.4	1730.5	1753.5	1730.5
35°	1603.2	1610.5	1655.3	1673.5	1662.6
37.5°	1514.6	1542.5	1587.4	1599.5	1580.1
40°	1448.0	1449.2	1513.4	1513.4	1512.2
42.5°	1361.9	1381.3	1423.7	1446.7	1434.6
45°	1287.9	1293.9	1348.5	1365.5	1361.9
47.5°	1206.6	1230.9	1270.9	1290.3	1280.6
50°	1126.6	1143.6	1184.8	1210.3	1200.6
52.5°	1052.6	1066.0	1108.4	1123.0	1113.2
55°	962.9	984.7	1019.9	1034.4	1025.9
57.5°	885.3	901.0	944.7	949.5	944.7
60°	804.0	822.2	857.4	861.0	851.3
62.5°	726.4	738.5	770.1	771.3	760.4
65°	643.9	658.5	680.3	677.9	667.0
67.5°	562.7	572.4	593.0	584.5	572.4
70°	480.2	488.7	505.7	493.6	482.7
72.5°	400.2	406.3	420.8	402.6	389.3
75°	321.4	323.8	334.7	311.7	292.3
77.5°	243.8	246.2	252.2	229.2	207.4
80°	173.4	173.4	175.8	151.6	137.0
82.5°	109.1	109.1	107.9	89.7	81.3
85°	57.0	55.8	54.6	43.7	40.0
87.5°	20.6	20.6	17.0	15.8	17.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)