

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: P485924

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-3HI-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: P485924
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-LD4-3HI-50-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

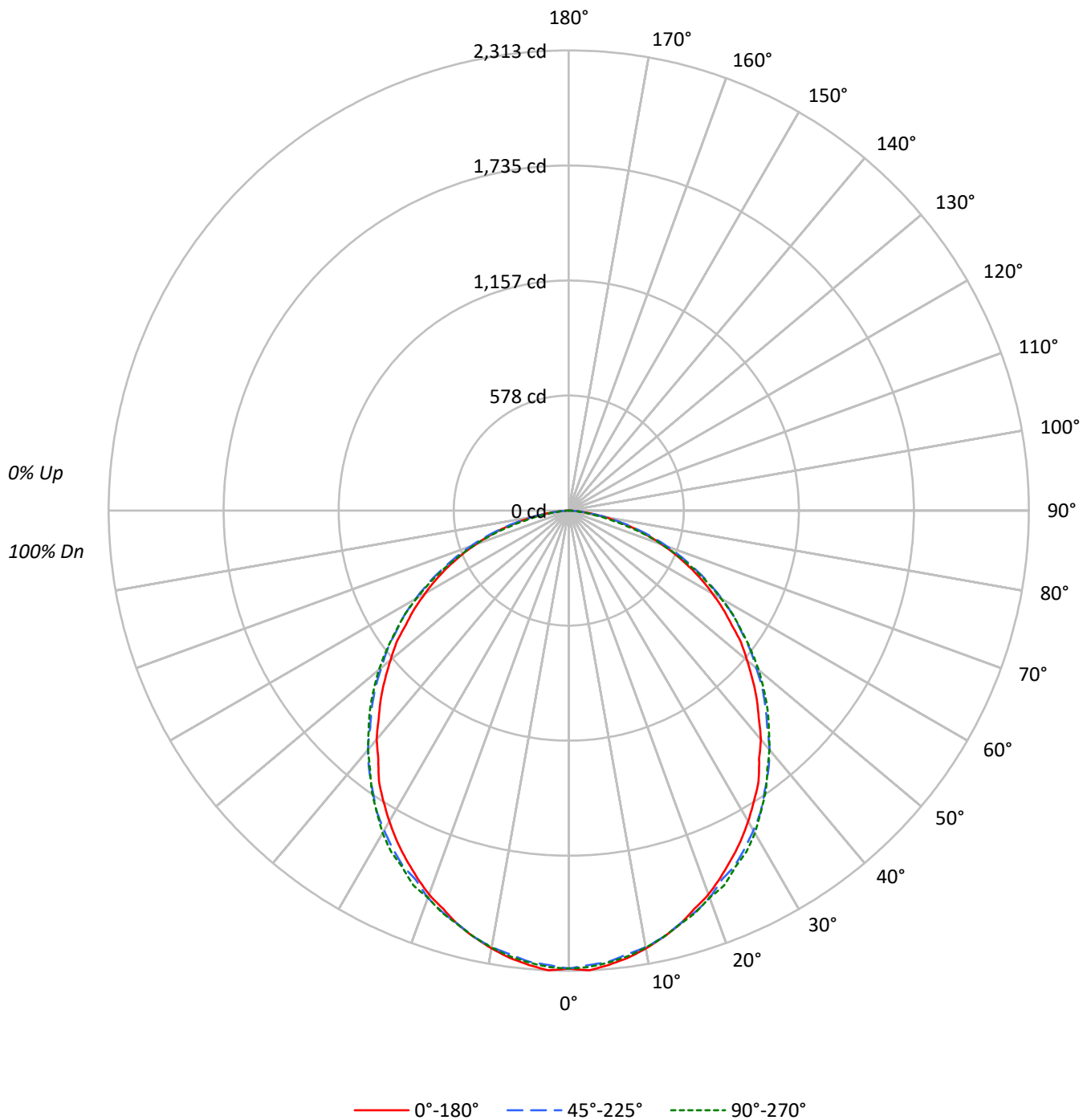
Lumens per Lamp: N/A
Luminaire Lumens: 5912.4 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 66
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°	6194	6194	6194
5°	6194	6150	6160
10°	6107	6087	6094
15°	6003	5996	5999
20°	5882	5932	5929
25°	5743	5855	5874
30°	5604	5768	5815
35°	5466	5643	5668
40°	5279	5517	5513
45°	5086	5326	5378
50°	4895	5148	5216
55°	4688	4966	4995
60°	4491	4789	4755
65°	4255	4495	4408
70°	3921	4129	3941
75°	3467	3612	3153
80°	2789	2828	2204
85°	1828	1748	1281



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.4	3.7
10°-20°	608.4	10.3
20°-30°	905.8	15.3
30°-40°	1066.1	18.0
40°-50°	1068.9	18.1
50°-60°	937.4	15.9
60°-70°	685.4	11.6
70°-80°	353.2	6.0
80°-90°	70.9	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°	1730.5	29.3
0°-40°	2796.6	47.3
0°-60°	4802.9	81.2
0°-90°	5912.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5912.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2302	2302	2302	2302	2302	
5°	2293	2278	2277	2292	2280	217
15°	2155	2158	2152	2166	2153	606
25°	1934	1943	1972	2000	1978	891
35°	1664	1671	1718	1737	1725	1036
45°	1336	1343	1400	1417	1413	1030
55°	999	1022	1058	1074	1065	897
65°	668	683	706	704	692	661
75°	334	336	347	323	303	353
85°	59	58	57	45	42	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2301.8	2301.8	2301.8	2301.8	2301.8
2.5°	2313.2	2301.8	2286.7	2299.3	2296.8
5°	2293.0	2277.9	2276.7	2291.8	2280.4
7.5°	2267.8	2265.3	2250.2	2266.6	2260.3
10°	2235.1	2232.6	2227.6	2238.9	2230.1
12.5°	2196.1	2193.6	2196.1	2202.4	2196.1
15°	2154.6	2158.4	2152.1	2165.9	2153.3
17.5°	2099.2	2103.0	2115.6	2120.6	2119.3
20°	2053.9	2056.4	2071.5	2091.7	2070.3
22.5°	1994.8	2001.0	2008.6	2045.1	2040.1
25°	1934.3	1943.2	1972.1	1999.8	1978.4
27.5°	1871.4	1880.2	1915.5	1935.6	1933.1
30°	1803.5	1812.3	1856.3	1884.0	1871.4
32.5°	1733.0	1748.1	1795.9	1819.8	1795.9
35°	1663.8	1671.3	1717.9	1736.8	1725.4
37.5°	1571.9	1600.8	1647.4	1660.0	1639.8
40°	1502.7	1503.9	1570.6	1570.6	1569.4
42.5°	1413.3	1433.5	1477.5	1501.4	1488.8
45°	1336.5	1342.8	1399.5	1417.1	1413.3
47.5°	1252.2	1277.4	1318.9	1339.1	1329.0
50°	1169.2	1186.8	1229.6	1256.0	1245.9
52.5°	1092.4	1106.2	1150.3	1165.4	1155.3
55°	999.3	1021.9	1058.4	1073.5	1064.7
57.5°	918.7	935.1	980.4	985.4	980.4
60°	834.4	853.3	889.8	893.5	883.5
62.5°	753.9	766.4	799.2	800.4	789.1
65°	668.3	683.4	706.0	703.5	692.2
67.5°	584.0	594.0	615.4	606.6	594.0
70°	498.4	507.2	524.8	512.2	500.9
72.5°	415.3	421.6	436.7	417.8	404.0
75°	333.5	336.0	347.4	323.4	303.3
77.5°	253.0	255.5	261.8	237.9	215.2
80°	180.0	180.0	182.5	157.3	142.2
82.5°	113.3	113.3	112.0	93.1	84.3
85°	59.2	57.9	56.6	45.3	41.5
87.5°	21.4	21.4	17.6	16.4	17.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)