

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: P485983

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-4STD-40-120-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: P485983
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-LD4-4STD-40-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

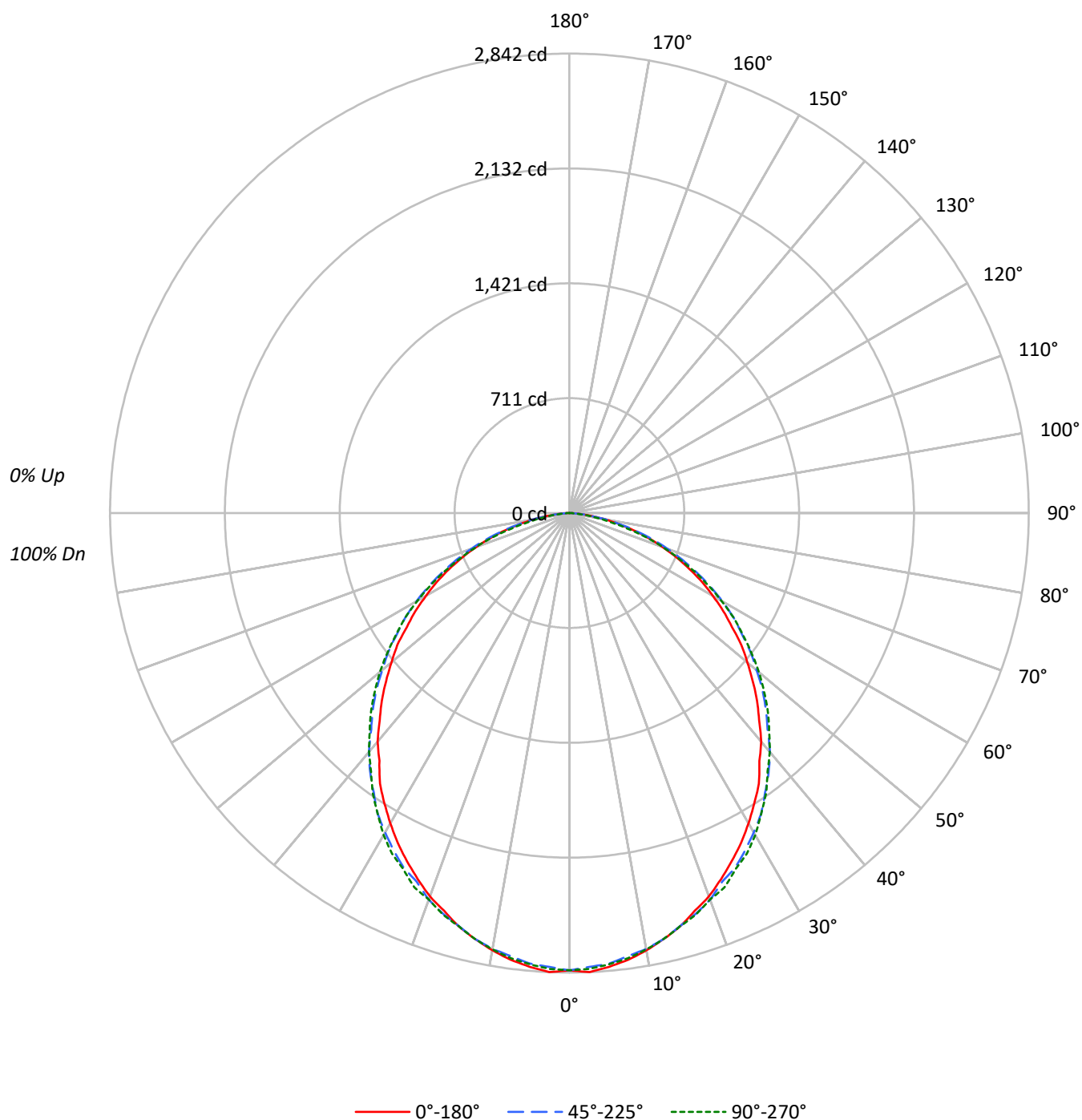
Lumens per Lamp: N/A
Luminaire Lumens: 7264.1 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
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°	7610	7610	7610
5°	7610	7556	7568
10°	7504	7478	7487
15°	7375	7366	7370
20°	7226	7288	7284
25°	7057	7194	7217
30°	6885	7087	7145
35°	6715	6933	6964
40°	6485	6779	6773
45°	6249	6543	6608
50°	6014	6324	6409
55°	5760	6101	6137
60°	5518	5884	5842
65°	5228	5523	5415
70°	4818	5073	4842
75°	4261	4438	3874
80°	3426	3474	2707
85°	2245	2149	1575



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.8	3.7
10°-20°	747.5	10.3
20°-30°	1112.8	15.3
30°-40°	1309.9	18.0
40°-50°	1313.3	18.1
50°-60°	1151.6	15.9
60°-70°	842.1	11.6
70°-80°	434.0	6.0
80°-90°	87.1	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°	2126.1	29.3
0°-40°	3436.0	47.3
0°-60°	5900.9	81.2
0°-90°	7264.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7264.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2828	2828	2828	2828	2828	
5°	2817	2799	2797	2816	2802	267
15°	2647	2652	2644	2661	2646	745
25°	2377	2387	2423	2457	2431	1095
35°	2044	2053	2111	2134	2120	1273
45°	1642	1650	1719	1741	1736	1266
55°	1228	1256	1300	1319	1308	1102
65°	821	840	867	864	850	812
75°	410	413	427	397	373	434
85°	73	71	70	56	51	95
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2828.1	2828.1	2828.1	2828.1	2828.1
2.5°	2842.0	2828.1	2809.5	2825.0	2821.9
5°	2817.3	2798.7	2797.2	2815.7	2801.8
7.5°	2786.3	2783.2	2764.7	2784.8	2777.1
10°	2746.1	2743.0	2736.8	2750.8	2739.9
12.5°	2698.2	2695.1	2698.2	2705.9	2698.2
15°	2647.2	2651.8	2644.1	2661.1	2645.6
17.5°	2579.1	2583.8	2599.2	2605.4	2603.9
20°	2523.5	2526.6	2545.1	2569.9	2543.6
22.5°	2450.8	2458.5	2467.8	2512.6	2506.5
25°	2376.6	2387.4	2423.0	2457.0	2430.7
27.5°	2299.3	2310.1	2353.4	2378.1	2375.0
30°	2215.8	2226.6	2280.7	2314.7	2299.3
32.5°	2129.2	2147.7	2206.5	2235.9	2206.5
35°	2044.1	2053.4	2110.6	2133.8	2119.9
37.5°	1931.3	1966.8	2024.0	2039.5	2014.8
40°	1846.2	1847.8	1929.7	1929.7	1928.2
42.5°	1736.4	1761.2	1815.3	1844.7	1829.2
45°	1642.1	1649.8	1719.4	1741.1	1736.4
47.5°	1538.5	1569.4	1620.5	1645.2	1632.8
50°	1436.5	1458.1	1510.7	1543.1	1530.8
52.5°	1342.1	1359.1	1413.3	1431.8	1419.5
55°	1227.7	1255.5	1300.4	1318.9	1308.1
57.5°	1128.8	1148.9	1204.5	1210.7	1204.5
60°	1025.2	1048.4	1093.2	1097.8	1085.5
62.5°	926.2	941.7	981.9	983.4	969.5
65°	821.1	839.6	867.4	864.3	850.4
67.5°	717.5	729.8	756.1	745.3	729.8
70°	612.3	623.1	644.8	629.3	615.4
72.5°	510.3	518.0	536.5	513.4	496.3
75°	409.8	412.8	426.8	397.4	372.6
77.5°	310.8	313.9	321.6	292.2	264.4
80°	221.1	221.1	224.2	193.3	174.7
82.5°	139.2	139.2	137.6	114.4	103.6
85°	72.7	71.1	69.6	55.7	51.0
87.5°	26.3	26.3	21.6	20.1	21.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)