

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: P485956

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-4HI-35-120-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: P485956
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-LD4-4HI-35-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

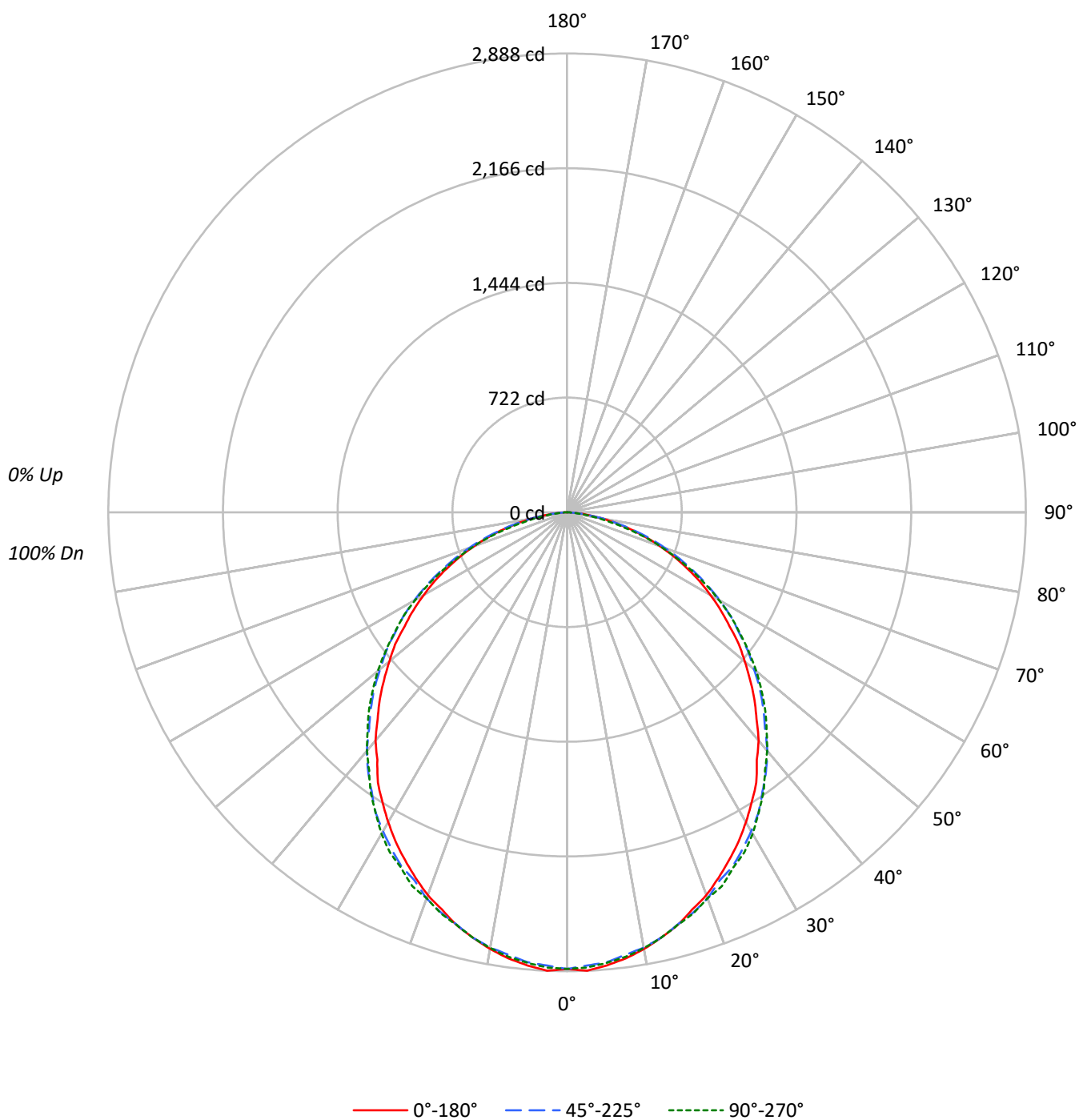
Lumens per Lamp: N/A
Luminaire Lumens: 7381.6 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 88
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°	7733	7733	7733
5°	7733	7678	7691
10°	7625	7599	7608
15°	7494	7485	7490
20°	7343	7406	7402
25°	7171	7311	7334
30°	6996	7201	7260
35°	6824	7046	7077
40°	6590	6888	6883
45°	6350	6649	6715
50°	6111	6427	6512
55°	5853	6199	6237
60°	5606	5979	5936
65°	5312	5613	5503
70°	4895	5155	4921
75°	4329	4509	3937
80°	3482	3530	2752
85°	2279	2183	1602



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.1	3.7
10°-20°	759.5	10.3
20°-30°	1130.8	15.3
30°-40°	1331.0	18.0
40°-50°	1334.5	18.1
50°-60°	1170.3	15.9
60°-70°	855.7	11.6
70°-80°	441.0	6.0
80°-90°	88.5	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°	2160.5	29.3
0°-40°	3491.5	47.3
0°-60°	5996.4	81.2
0°-90°	7381.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7381.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2874	2874	2874	2874	2874	
5°	2863	2844	2842	2861	2847	271
15°	2690	2695	2687	2704	2688	757
25°	2415	2426	2462	2497	2470	1112
35°	2077	2087	2145	2168	2154	1294
45°	1669	1676	1747	1769	1764	1286
55°	1248	1276	1321	1340	1329	1120
65°	834	853	882	878	864	825
75°	416	420	434	404	379	441
85°	74	72	71	57	52	96
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2873.8	2873.8	2873.8	2873.8	2873.8
2.5°	2888.0	2873.8	2855.0	2870.7	2867.5
5°	2862.8	2844.0	2842.4	2861.3	2847.1
7.5°	2831.4	2828.3	2809.4	2829.8	2822.0
10°	2790.5	2787.4	2781.1	2795.3	2784.3
12.5°	2741.8	2738.7	2741.8	2749.7	2741.8
15°	2690.0	2694.7	2686.8	2704.1	2688.4
17.5°	2620.9	2625.6	2641.3	2647.6	2646.0
20°	2564.3	2567.4	2586.3	2611.4	2584.7
22.5°	2490.4	2498.3	2507.7	2553.3	2547.0
25°	2415.0	2426.0	2462.2	2496.7	2470.0
27.5°	2336.5	2347.5	2391.4	2416.6	2413.4
30°	2251.6	2262.6	2317.6	2352.2	2336.5
32.5°	2163.6	2182.5	2242.2	2272.0	2242.2
35°	2077.2	2086.6	2144.8	2168.3	2154.2
37.5°	1962.5	1998.6	2056.8	2072.5	2047.3
40°	1876.1	1877.6	1960.9	1960.9	1959.4
42.5°	1764.5	1789.7	1844.7	1874.5	1858.8
45°	1668.7	1676.5	1747.2	1769.2	1764.5
47.5°	1563.4	1594.8	1646.7	1671.8	1659.2
50°	1459.7	1481.7	1535.1	1568.1	1555.5
52.5°	1363.8	1381.1	1436.1	1455.0	1442.4
55°	1247.6	1275.9	1321.4	1340.3	1329.3
57.5°	1147.0	1167.4	1224.0	1230.3	1224.0
60°	1041.7	1065.3	1110.9	1115.6	1103.0
62.5°	941.2	956.9	997.7	999.3	985.2
65°	834.3	853.2	881.5	878.3	864.2
67.5°	729.1	741.6	768.3	757.3	741.6
70°	622.2	633.2	655.2	639.5	625.4
72.5°	518.5	526.4	545.2	521.7	504.4
75°	416.4	419.5	433.7	403.8	378.7
77.5°	315.8	319.0	326.8	297.0	268.7
80°	224.7	224.7	227.8	196.4	177.6
82.5°	141.4	141.4	139.8	116.3	105.3
85°	73.8	72.3	70.7	56.6	51.9
87.5°	26.7	26.7	22.0	20.4	22.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)