

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: P485923

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-3HI-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: P485923
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-40-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

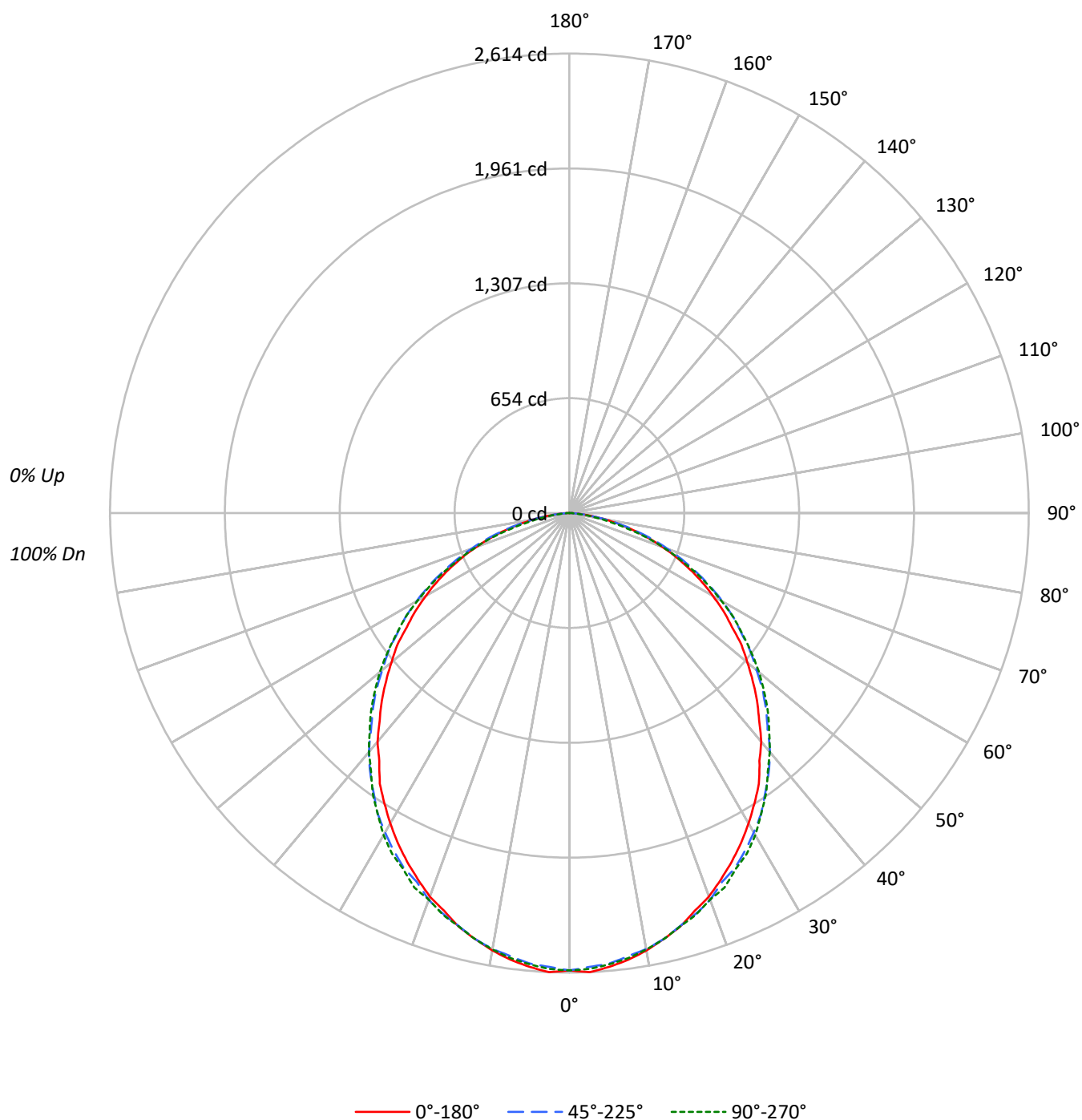
Lumens per Lamp: N/A
Luminaire Lumens: 6682.4 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	7001	7001	7001
5°	7001	6951	6962
10°	6903	6880	6887
15°	6784	6776	6780
20°	6648	6705	6701
25°	6491	6618	6639
30°	6334	6519	6572
35°	6177	6378	6406
40°	5966	6236	6231
45°	5749	6019	6079
50°	5532	5818	5895
55°	5299	5613	5646
60°	5076	5413	5374
65°	4809	5081	4981
70°	4432	4666	4454
75°	3919	4082	3564
80°	3152	3197	2490
85°	2066	1976	1448



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.5	3.7
10°-20°	687.6	10.3
20°-30°	1023.7	15.3
30°-40°	1205.0	18.0
40°-50°	1208.1	18.1
50°-60°	1059.4	15.9
60°-70°	774.7	11.6
70°-80°	399.2	6.0
80°-90°	80.1	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°	1955.8	29.3
0°-40°	3160.8	47.3
0°-60°	5428.4	81.2
0°-90°	6682.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6682.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2602	2602	2602	2602	2602	
5°	2592	2575	2573	2590	2577	245
15°	2435	2440	2432	2448	2434	685
25°	2186	2196	2229	2260	2236	1007
35°	1880	1889	1942	1963	1950	1171
45°	1511	1518	1582	1602	1597	1164
55°	1129	1155	1196	1213	1203	1014
65°	755	772	798	795	782	747
75°	377	380	393	366	343	399
85°	67	65	64	51	47	87
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2601.6	2601.6	2601.6	2601.6	2601.6
2.5°	2614.4	2601.6	2584.5	2598.8	2595.9
5°	2591.7	2574.6	2573.2	2590.2	2577.4
7.5°	2563.2	2560.4	2543.3	2561.8	2554.7
10°	2526.2	2523.4	2517.7	2530.5	2520.5
12.5°	2482.1	2479.3	2482.1	2489.2	2482.1
15°	2435.2	2439.5	2432.3	2448.0	2433.8
17.5°	2372.6	2376.9	2391.1	2396.8	2395.4
20°	2321.4	2324.2	2341.3	2364.1	2339.9
22.5°	2254.5	2261.6	2270.2	2311.4	2305.7
25°	2186.3	2196.2	2228.9	2260.2	2236.0
27.5°	2115.1	2125.1	2164.9	2187.7	2184.8
30°	2038.3	2048.3	2098.1	2129.4	2115.1
32.5°	1958.7	1975.7	2029.8	2056.8	2029.8
35°	1880.4	1889.0	1941.6	1962.9	1950.1
37.5°	1776.6	1809.3	1861.9	1876.2	1853.4
40°	1698.4	1699.8	1775.2	1775.2	1773.8
42.5°	1597.4	1620.1	1669.9	1696.9	1682.7
45°	1510.6	1517.7	1581.7	1601.6	1597.4
47.5°	1415.3	1443.8	1490.7	1513.5	1502.1
50°	1321.4	1341.3	1389.7	1419.6	1408.2
52.5°	1234.7	1250.3	1300.1	1317.2	1305.8
55°	1129.4	1155.0	1196.3	1213.3	1203.4
57.5°	1038.4	1056.9	1108.1	1113.8	1108.1
60°	943.1	964.4	1005.7	1009.9	998.5
62.5°	852.0	866.3	903.2	904.7	891.9
65°	755.3	772.4	798.0	795.1	782.3
67.5°	660.0	671.4	695.6	685.6	671.4
70°	563.3	573.2	593.1	578.9	566.1
72.5°	469.4	476.5	493.6	472.2	456.6
75°	376.9	379.8	392.6	365.6	342.8
77.5°	285.9	288.8	295.9	268.8	243.2
80°	203.4	203.4	206.3	177.8	160.7
82.5°	128.0	128.0	126.6	105.3	95.3
85°	66.9	65.4	64.0	51.2	46.9
87.5°	24.2	24.2	19.9	18.5	19.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)