

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: P485925

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-3HI-50-120-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: P485925
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
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

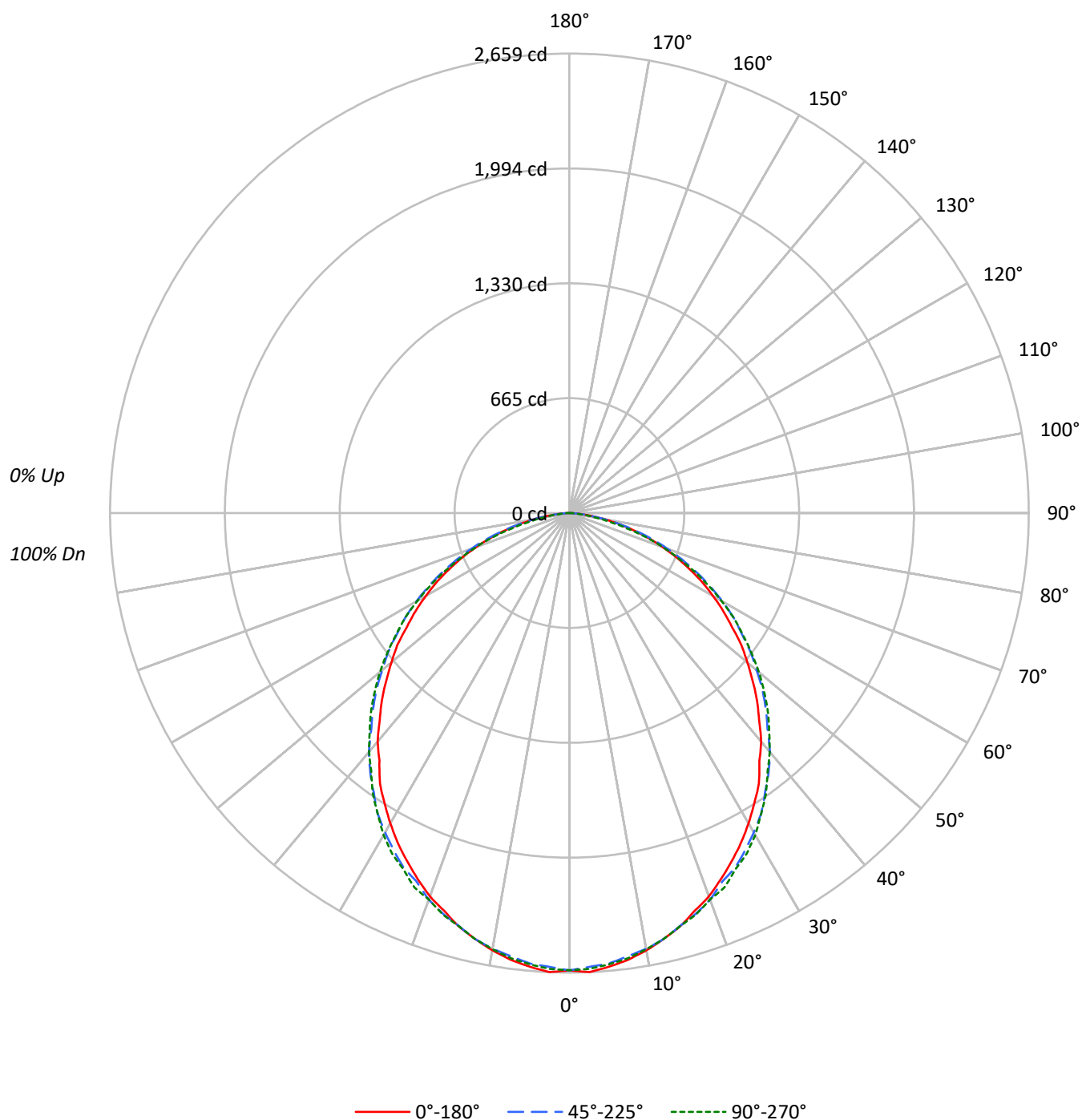
Lumens per Lamp: N/A
Luminaire Lumens: 6795.8 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	7120	7120	7120
5°	7119	7069	7081
10°	7020	6996	7004
15°	6899	6891	6895
20°	6761	6818	6814
25°	6602	6731	6752
30°	6441	6630	6684
35°	6282	6487	6515
40°	6067	6342	6337
45°	5846	6122	6182
50°	5626	5917	5995
55°	5389	5708	5742
60°	5162	5504	5465
65°	4891	5167	5066
70°	4507	4746	4530
75°	3985	4152	3624
80°	3206	3251	2534
85°	2100	2010	1473



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.7	3.7
10°-20°	699.3	10.3
20°-30°	1041.1	15.3
30°-40°	1225.4	18.0
40°-50°	1228.6	18.1
50°-60°	1077.4	15.9
60°-70°	787.8	11.6
70°-80°	406.0	6.0
80°-90°	81.5	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°	1989.0	29.3
0°-40°	3214.5	47.3
0°-60°	5520.5	81.2
0°-90°	6795.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6795.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2646	2646	2646	2646	2646	
5°	2636	2618	2617	2634	2621	249
15°	2476	2481	2474	2490	2475	697
25°	2223	2234	2267	2299	2274	1024
35°	1912	1921	1975	1996	1983	1191
45°	1536	1544	1609	1629	1624	1184
55°	1149	1175	1217	1234	1224	1031
65°	768	786	812	809	796	760
75°	383	386	399	372	349	406
85°	68	66	65	52	48	89
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2645.8	2645.8	2645.8	2645.8	2645.8
2.5°	2658.8	2645.8	2628.4	2642.9	2640.0
5°	2635.6	2618.3	2616.8	2634.2	2621.2
7.5°	2606.7	2603.8	2586.4	2605.3	2598.0
10°	2569.1	2566.2	2560.4	2573.4	2563.3
12.5°	2524.2	2521.4	2524.2	2531.5	2524.2
15°	2476.5	2480.8	2473.6	2489.5	2475.1
17.5°	2412.9	2417.2	2431.7	2437.5	2436.0
20°	2360.8	2363.7	2381.0	2404.2	2379.6
22.5°	2292.8	2300.0	2308.7	2350.7	2344.9
25°	2223.4	2233.5	2266.8	2298.6	2274.0
27.5°	2151.0	2161.2	2201.7	2224.8	2221.9
30°	2072.9	2083.0	2133.7	2165.5	2151.0
32.5°	1991.9	2009.3	2064.2	2091.7	2064.2
35°	1912.4	1921.0	1974.6	1996.3	1983.2
37.5°	1806.8	1840.0	1893.5	1908.0	1884.9
40°	1727.2	1728.6	1805.3	1805.3	1803.9
42.5°	1624.5	1647.6	1698.3	1725.7	1711.3
45°	1536.2	1543.5	1608.6	1628.8	1624.5
47.5°	1439.3	1468.3	1516.0	1539.1	1527.6
50°	1343.9	1364.1	1413.3	1443.7	1432.1
52.5°	1255.6	1271.5	1322.2	1339.5	1327.9
55°	1148.6	1174.6	1216.6	1233.9	1223.8
57.5°	1056.0	1074.8	1126.9	1132.7	1126.9
60°	959.1	980.8	1022.7	1027.1	1015.5
62.5°	866.5	881.0	918.6	920.0	907.0
65°	768.1	785.5	811.5	808.6	795.6
67.5°	671.2	682.8	707.4	697.2	682.8
70°	572.8	583.0	603.2	588.7	575.7
72.5°	477.4	484.6	502.0	480.3	464.3
75°	383.3	386.2	399.3	371.8	348.6
77.5°	290.8	293.7	300.9	273.4	247.4
80°	206.9	206.9	209.8	180.8	163.5
82.5°	130.2	130.2	128.7	107.0	96.9
85°	68.0	66.5	65.1	52.1	47.7
87.5°	24.6	24.6	20.3	18.8	20.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)