

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: P485893

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-2LO-27-120-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: P485893
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-LD4-2LO-27-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

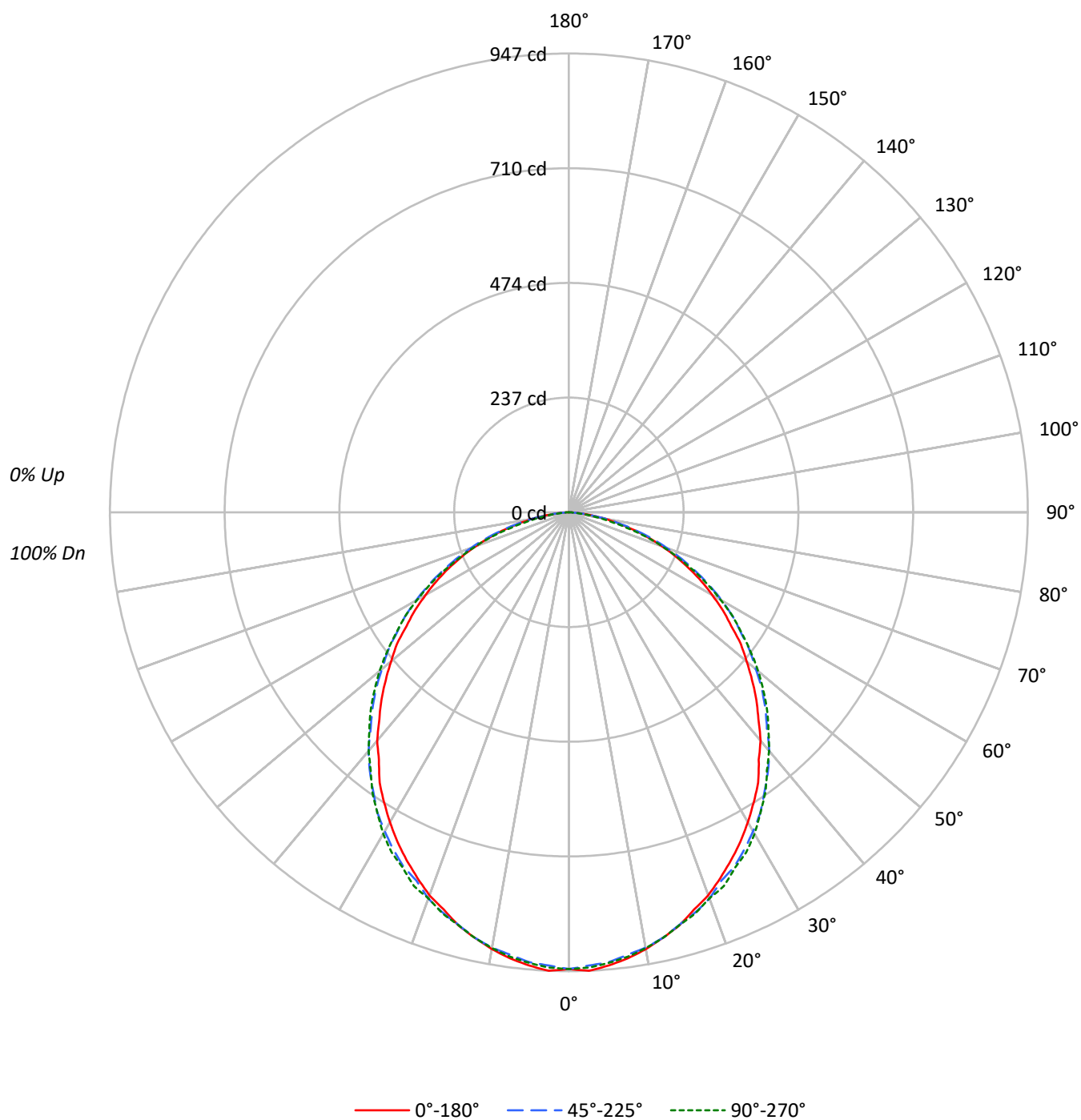
Lumens per Lamp: N/A
Luminaire Lumens: 2420.8 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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					10
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°	2536	2536	2536
5°	2536	2518	2522
10°	2501	2492	2495
15°	2458	2455	2456
20°	2408	2429	2428
25°	2352	2398	2405
30°	2294	2362	2381
35°	2238	2311	2321
40°	2161	2259	2257
45°	2082	2181	2202
50°	2004	2107	2135
55°	1919	2033	2045
60°	1838	1961	1947
65°	1742	1841	1805
70°	1606	1691	1614
75°	1420	1478	1291
80°	1142	1158	902
85°	747	716	525



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.6	3.7
10°-20°	249.1	10.3
20°-30°	370.9	15.3
30°-40°	436.5	18.0
40°-50°	437.7	18.1
50°-60°	383.8	15.9
60°-70°	280.6	11.6
70°-80°	144.6	6.0
80°-90°	29.0	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°	708.5	29.3
0°-40°	1145.1	47.3
0°-60°	1966.5	81.2
0°-90°	2420.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2420.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	942	942	942	942	942	
5°	939	933	932	938	934	89
15°	882	884	881	887	882	248
25°	792	796	808	819	810	365
35°	681	684	703	711	706	424
45°	547	550	573	580	579	422
55°	409	418	433	440	436	367
65°	274	280	289	288	283	271
75°	137	138	142	132	124	145
85°	24	24	23	19	17	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	942.5	942.5	942.5	942.5	942.5
2.5°	947.1	942.5	936.3	941.4	940.4
5°	938.9	932.7	932.2	938.3	933.7
7.5°	928.6	927.5	921.3	928.0	925.5
10°	915.2	914.1	912.1	916.7	913.1
12.5°	899.2	898.2	899.2	901.8	899.2
15°	882.2	883.7	881.2	886.8	881.7
17.5°	859.5	861.1	866.2	868.3	867.8
20°	841.0	842.0	848.2	856.4	847.7
22.5°	816.7	819.3	822.4	837.4	835.3
25°	792.0	795.6	807.5	818.8	810.0
27.5°	766.2	769.8	784.3	792.5	791.5
30°	738.4	742.0	760.1	771.4	766.2
32.5°	709.6	715.7	735.3	745.1	735.3
35°	681.2	684.3	703.4	711.1	706.5
37.5°	643.6	655.5	674.5	679.7	671.4
40°	615.3	615.8	643.1	643.1	642.6
42.5°	578.7	586.9	605.0	614.7	609.6
45°	547.2	549.8	573.0	580.2	578.7
47.5°	512.7	523.0	540.0	548.3	544.1
50°	478.7	485.9	503.4	514.3	510.1
52.5°	447.3	452.9	471.0	477.2	473.0
55°	409.1	418.4	433.4	439.5	435.9
57.5°	376.2	382.9	401.4	403.5	401.4
60°	341.6	349.4	364.3	365.9	361.7
62.5°	308.7	313.8	327.2	327.7	323.1
65°	273.6	279.8	289.1	288.0	283.4
67.5°	239.1	243.2	252.0	248.4	243.2
70°	204.1	207.7	214.9	209.7	205.1
72.5°	170.0	172.6	178.8	171.1	165.4
75°	136.6	137.6	142.2	132.4	124.2
77.5°	103.6	104.6	107.2	97.4	88.1
80°	73.7	73.7	74.7	64.4	58.2
82.5°	46.4	46.4	45.9	38.1	34.5
85°	24.2	23.7	23.2	18.6	17.0
87.5°	8.8	8.8	7.2	6.7	7.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)