

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: P486023

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-6HI-20-120-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: P486023
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-LD4-6HI-20-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

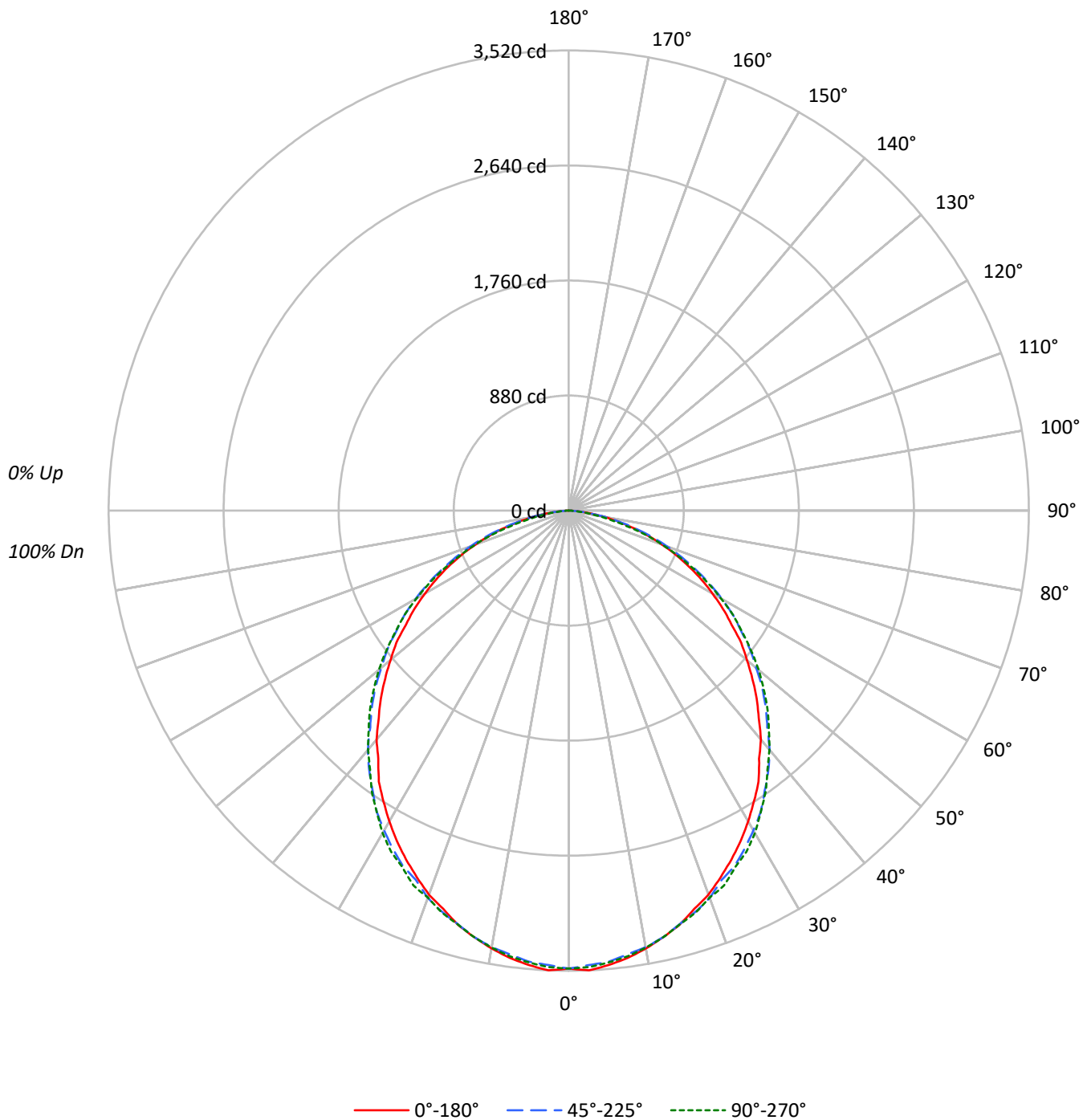
Lumens per Lamp: N/A
Luminaire Lumens: 8998.1 lumens
Efficiency: N/A
Efficacy: 68.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 132
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°	9427	9427	9427
5°	9427	9360	9375
10°	9295	9264	9274
15°	9135	9124	9130
20°	8951	9028	9023
25°	8741	8911	8940
30°	8529	8778	8850
35°	8318	8589	8626
40°	8033	8397	8390
45°	7741	8106	8186
50°	7449	7834	7938
55°	7135	7557	7602
60°	6835	7288	7237
65°	6476	6842	6707
70°	5968	6284	5998
75°	5278	5496	4799
80°	4245	4303	3353
85°	2779	2661	1951



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	329.3	3.7
10°-20°	925.9	10.3
20°-30°	1378.5	15.3
30°-40°	1622.5	18.0
40°-50°	1626.8	18.1
50°-60°	1426.6	15.9
60°-70°	1043.1	11.6
70°-80°	537.6	6.0
80°-90°	107.9	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°	2633.6	29.3
0°-40°	4256.1	47.3
0°-60°	7309.5	81.2
0°-90°	8998.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8998.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3503	3503	3503	3503	3503	
5°	3490	3467	3465	3488	3471	330
15°	3279	3285	3275	3296	3277	923
25°	2944	2957	3001	3044	3011	1356
35°	2532	2544	2614	2643	2626	1577
45°	2034	2044	2130	2157	2151	1568
55°	1521	1555	1611	1634	1620	1365
65°	1017	1040	1074	1071	1053	1006
75°	508	511	529	492	462	538
85°	90	88	86	69	63	117
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3503.2	3503.2	3503.2	3503.2	3503.2
2.5°	3520.4	3503.2	3480.2	3499.3	3495.5
5°	3489.8	3466.8	3464.9	3487.8	3470.6
7.5°	3451.4	3447.6	3424.6	3449.5	3440.0
10°	3401.6	3397.8	3390.2	3407.4	3394.0
12.5°	3342.3	3338.4	3342.3	3351.8	3342.3
15°	3279.1	3284.8	3275.2	3296.3	3277.2
17.5°	3194.8	3200.5	3219.7	3227.4	3225.4
20°	3125.8	3129.7	3152.7	3183.3	3150.7
22.5°	3035.8	3045.4	3056.9	3112.4	3104.8
25°	2943.9	2957.3	3001.3	3043.5	3010.9
27.5°	2848.1	2861.5	2915.2	2945.8	2942.0
30°	2744.7	2758.1	2825.1	2867.3	2848.1
32.5°	2637.4	2660.4	2733.2	2769.6	2733.2
35°	2532.1	2543.6	2614.4	2643.2	2625.9
37.5°	2392.3	2436.3	2507.2	2526.3	2495.7
40°	2286.9	2288.8	2390.3	2390.3	2388.4
42.5°	2150.9	2181.6	2248.6	2285.0	2265.9
45°	2034.1	2043.7	2129.9	2156.7	2150.9
47.5°	1905.8	1944.1	2007.3	2037.9	2022.6
50°	1779.4	1806.2	1871.3	1911.5	1896.2
52.5°	1662.5	1683.6	1750.6	1773.6	1758.3
55°	1520.8	1555.3	1610.8	1633.8	1620.4
57.5°	1398.2	1423.1	1492.1	1499.7	1492.1
60°	1269.9	1298.6	1354.1	1359.9	1344.6
62.5°	1147.3	1166.4	1216.2	1218.2	1200.9
65°	1017.0	1040.0	1074.5	1070.7	1053.4
67.5°	888.7	904.0	936.6	923.2	904.0
70°	758.5	771.9	798.7	779.5	762.3
72.5°	632.1	641.6	664.6	635.9	614.8
75°	507.6	511.4	528.6	492.2	461.6
77.5°	385.0	388.8	398.4	362.0	327.5
80°	273.9	273.9	277.7	239.4	216.4
82.5°	172.4	172.4	170.5	141.7	128.3
85°	90.0	88.1	86.2	69.0	63.2
87.5°	32.6	32.6	26.8	24.9	26.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)