

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: P485179

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-3LO-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: P485179
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-12-4-INS-A125-LD4-3LO-40-120-EDD
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

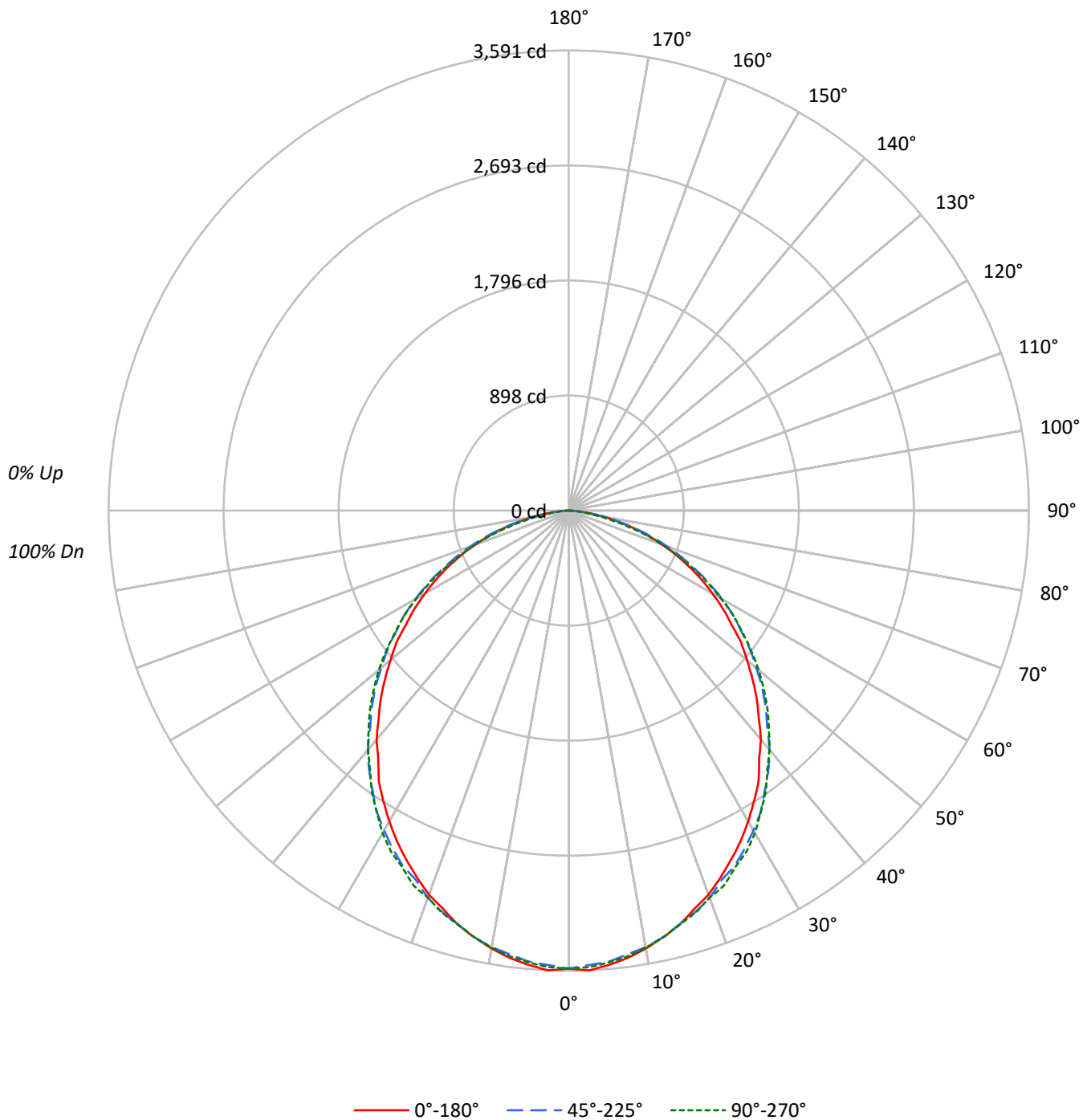
Lumens per Lamp: N/A
Luminaire Lumens: 9179.5 lumens
Efficiency: N/A
Efficacy: 130.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 70.2
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°	9617	9617	9617
5°	9617	9548	9564
10°	9482	9450	9461
15°	9319	9309	9314
20°	9132	9210	9205
25°	8917	9091	9120
30°	8700	8955	9028
35°	8486	8762	8800
40°	8195	8566	8559
45°	7897	8269	8351
50°	7599	7992	8098
55°	7279	7710	7755
60°	6972	7435	7382
65°	6607	6980	6843
70°	6088	6411	6119
75°	5384	5607	4896
80°	4330	4390	3422
85°	2834	2714	1991



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	335.9	3.7
10°-20°	944.5	10.3
20°-30°	1406.2	15.3
30°-40°	1655.2	18.0
40°-50°	1659.6	18.1
50°-60°	1455.3	15.9
60°-70°	1064.2	11.6
70°-80°	548.4	6.0
80°-90°	110.0	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°	2686.7	29.3
0°-40°	4342.0	47.3
0°-60°	7456.9	81.2
0°-90°	9179.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9179.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3574	3574	3574	3574	3574	
5°	3560	3537	3535	3558	3541	337
15°	3345	3351	3341	3363	3343	941
25°	3003	3017	3062	3105	3072	1383
35°	2583	2595	2667	2696	2679	1609
45°	2075	2085	2173	2200	2194	1599
55°	1551	1587	1643	1667	1653	1393
65°	1038	1061	1096	1092	1075	1026
75°	518	522	539	502	471	549
85°	92	90	88	70	64	120
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3573.8	3573.8	3573.8	3573.8	3573.8
2.5°	3591.4	3573.8	3550.3	3569.9	3566.0
5°	3560.1	3536.7	3534.7	3558.2	3540.6
7.5°	3521.0	3517.1	3493.7	3519.1	3509.3
10°	3470.2	3466.3	3458.5	3476.1	3462.4
12.5°	3409.7	3405.7	3409.7	3419.4	3409.7
15°	3345.2	3351.0	3341.3	3362.8	3343.2
17.5°	3259.2	3265.1	3284.6	3292.4	3290.5
20°	3188.9	3192.8	3216.2	3247.5	3214.3
22.5°	3097.0	3106.8	3118.5	3175.2	3167.4
25°	3003.2	3016.9	3061.8	3104.8	3071.6
27.5°	2905.5	2919.2	2973.9	3005.2	3001.3
30°	2800.0	2813.7	2882.1	2925.1	2905.5
32.5°	2690.6	2714.0	2788.3	2825.4	2788.3
35°	2583.1	2594.9	2667.1	2696.5	2678.9
37.5°	2440.5	2485.4	2557.7	2577.3	2546.0
40°	2333.0	2335.0	2438.5	2438.5	2436.6
42.5°	2194.3	2225.6	2293.9	2331.1	2311.5
45°	2075.1	2084.9	2172.8	2200.2	2194.3
47.5°	1944.2	1983.3	2047.7	2079.0	2063.4
50°	1815.2	1842.6	1909.0	1950.0	1934.4
52.5°	1696.0	1717.5	1785.9	1809.4	1793.7
55°	1551.4	1586.6	1643.3	1666.7	1653.0
57.5°	1426.4	1451.8	1522.1	1529.9	1522.1
60°	1295.5	1324.8	1381.4	1387.3	1371.7
62.5°	1170.4	1190.0	1240.8	1242.7	1225.1
65°	1037.6	1061.0	1096.2	1092.3	1074.7
67.5°	906.6	922.3	955.5	941.8	922.3
70°	773.8	787.4	814.8	795.3	777.7
72.5°	644.8	654.6	678.0	648.7	627.2
75°	517.8	521.7	539.3	502.2	470.9
77.5°	392.7	396.7	406.4	369.3	334.1
80°	279.4	279.4	283.3	244.2	220.8
82.5°	175.9	175.9	173.9	144.6	130.9
85°	91.8	89.9	87.9	70.3	64.5
87.5°	33.2	33.2	27.4	25.4	27.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)