

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: P485159

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-3HI-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: P485159
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-LD4-3HI-20-120-EDD
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

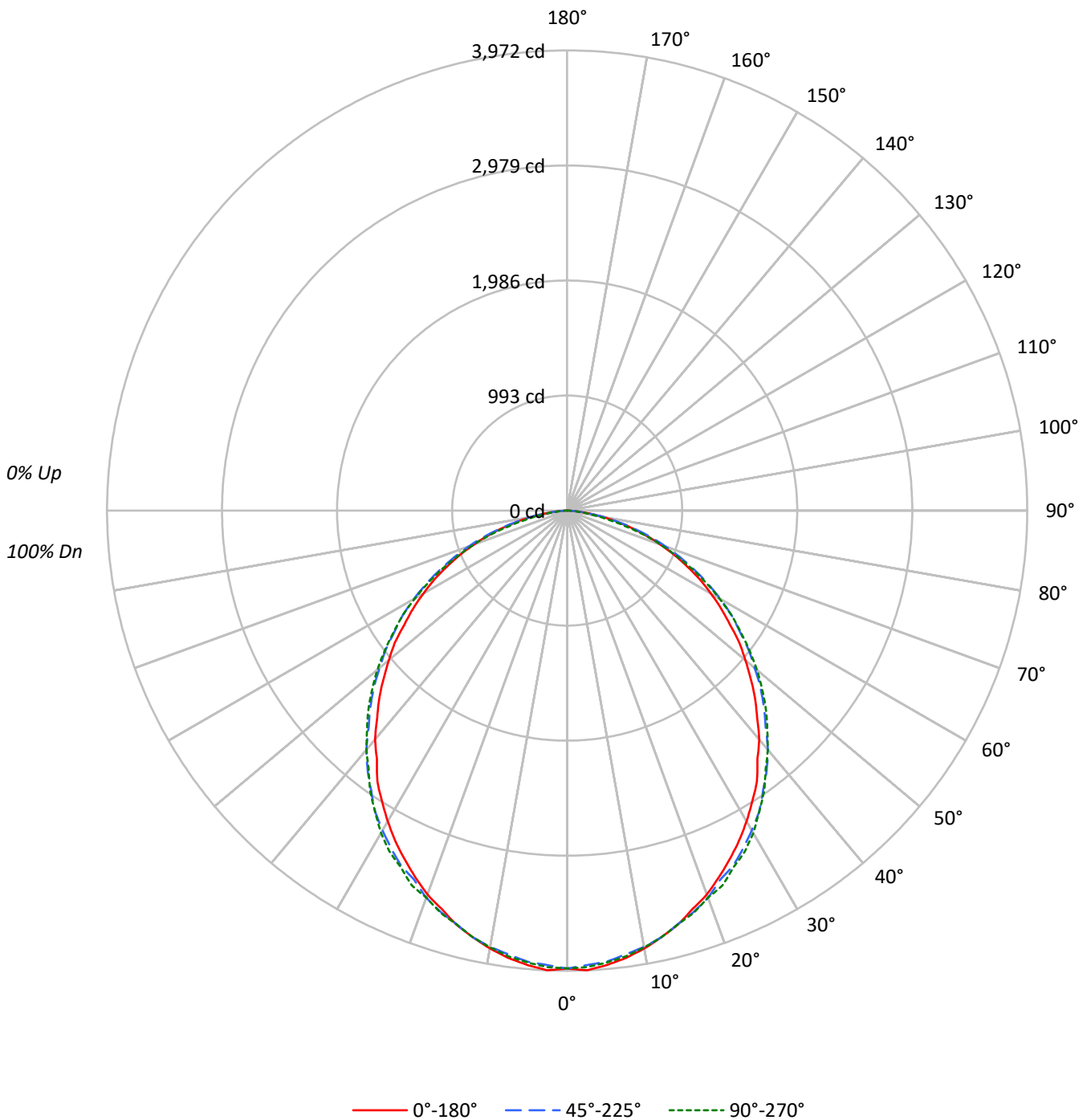
Lumens per Lamp: N/A
Luminaire Lumens: 10151.6 lumens
Efficiency: N/A
Efficacy: 76.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85					85			
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71					71			
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60					60			
4	83	72	63	57	81	70	62	56	68	61	55	66	59	55	63	58	54	52					52			
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39					39			
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31					31			
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10635	10635	10635
5°	10635	10559	10577
10°	10486	10451	10463
15°	10306	10294	10300
20°	10099	10186	10179
25°	9861	10054	10086
30°	9622	9904	9984
35°	9384	9690	9732
40°	9063	9473	9466
45°	8734	9145	9235
50°	8404	8838	8956
55°	8049	8526	8577
60°	7711	8222	8164
65°	7306	7719	7568
70°	6733	7090	6766
75°	5953	6201	5415
80°	4788	4855	3784
85°	3137	3001	2201



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.5	3.7
10°-20°	1044.6	10.3
20°-30°	1555.2	15.3
30°-40°	1830.5	18.0
40°-50°	1835.3	18.1
50°-60°	1609.4	15.9
60°-70°	1176.9	11.6
70°-80°	606.5	6.0
80°-90°	121.7	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°	2971.2	29.3
0°-40°	4801.8	47.3
0°-60°	8246.5	81.2
0°-90°	10151.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10151.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3952	3952	3952	3952	3952	
5°	3937	3911	3909	3935	3916	373
15°	3699	3706	3695	3719	3697	1041
25°	3321	3336	3386	3434	3397	1530
35°	2857	2870	2950	2982	2963	1779
45°	2295	2306	2403	2433	2427	1769
55°	1716	1755	1817	1843	1828	1540
65°	1147	1173	1212	1208	1188	1135
75°	573	577	596	555	521	607
85°	102	99	97	78	71	132
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3952.2	3952.2	3952.2	3952.2	3952.2
2.5°	3971.7	3952.2	3926.3	3947.9	3943.6
5°	3937.1	3911.2	3909.0	3935.0	3915.5
7.5°	3893.9	3889.6	3863.6	3891.7	3880.9
10°	3837.7	3833.4	3824.8	3844.2	3829.1
12.5°	3770.7	3766.4	3770.7	3781.5	3770.7
15°	3699.4	3705.9	3695.1	3718.9	3697.3
17.5°	3604.3	3610.8	3632.4	3641.1	3638.9
20°	3526.6	3530.9	3556.8	3591.4	3554.6
22.5°	3425.0	3435.8	3448.8	3511.4	3502.8
25°	3321.3	3336.4	3386.1	3433.6	3396.9
27.5°	3213.2	3228.4	3288.9	3323.4	3319.1
30°	3096.5	3111.7	3187.3	3234.8	3213.2
32.5°	2975.5	3001.5	3083.6	3124.6	3083.6
35°	2856.7	2869.6	2949.6	2982.0	2962.6
37.5°	2698.9	2748.6	2828.6	2850.2	2815.6
40°	2580.1	2582.2	2696.8	2696.8	2694.6
42.5°	2426.7	2461.2	2536.9	2577.9	2556.3
45°	2294.9	2305.7	2402.9	2433.1	2426.7
47.5°	2150.1	2193.3	2264.6	2299.2	2281.9
50°	2007.5	2037.7	2111.2	2156.6	2139.3
52.5°	1875.6	1899.4	1975.0	2001.0	1983.7
55°	1715.7	1754.6	1817.3	1843.2	1828.1
57.5°	1577.4	1605.5	1683.3	1692.0	1683.3
60°	1432.7	1465.1	1527.7	1534.2	1516.9
62.5°	1294.4	1316.0	1372.2	1374.3	1354.9
65°	1147.4	1173.4	1212.3	1207.9	1188.5
67.5°	1002.6	1019.9	1056.7	1041.5	1019.9
70°	855.7	870.8	901.1	879.5	860.0
72.5°	713.1	723.9	749.8	717.4	693.6
75°	572.6	577.0	596.4	555.3	520.8
77.5°	434.3	438.7	449.5	408.4	369.5
80°	309.0	309.0	313.3	270.1	244.2
82.5°	194.5	194.5	192.3	159.9	144.8
85°	101.6	99.4	97.2	77.8	71.3
87.5°	36.7	36.7	30.3	28.1	30.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)