

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: P485129

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-2HI-35-120-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: P485129
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-LD4-2HI-35-120-EDD
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

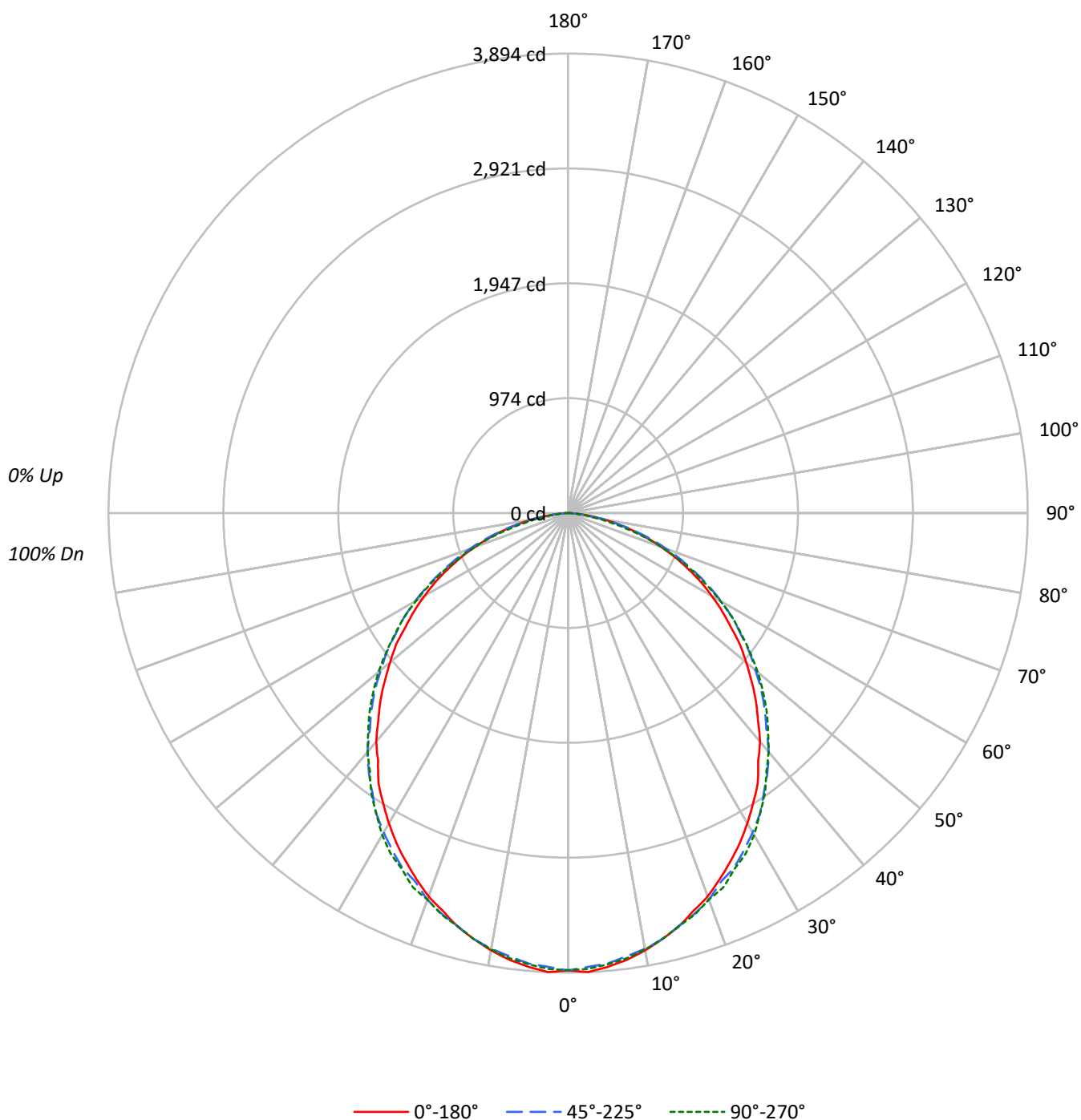
Lumens per Lamp: N/A
Luminaire Lumens: 9952.5 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 88
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°	10427	10427	10427
5°	10427	10352	10369
10°	10281	10246	10258
15°	10104	10092	10098
20°	9901	9986	9980
25°	9668	9857	9888
30°	9433	9710	9789
35°	9201	9499	9542
40°	8886	9288	9280
45°	8562	8965	9054
50°	8239	8665	8780
55°	7892	8359	8408
60°	7559	8061	8004
65°	7163	7568	7419
70°	6600	6950	6634
75°	5837	6079	5309
80°	4694	4761	3710
85°	3075	2942	2158



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.2	3.7
10°-20°	1024.1	10.3
20°-30°	1524.7	15.3
30°-40°	1794.6	18.0
40°-50°	1799.4	18.1
50°-60°	1577.9	15.9
60°-70°	1153.8	11.6
70°-80°	594.6	6.0
80°-90°	119.3	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°	2913.0	29.3
0°-40°	4707.6	47.3
0°-60°	8084.8	81.2
0°-90°	9952.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9952.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3875	3875	3875	3875	3875	
5°	3860	3834	3832	3858	3839	365
15°	3627	3633	3623	3646	3625	1021
25°	3256	3271	3320	3366	3330	1500
35°	2801	2813	2892	2924	2904	1744
45°	2250	2260	2356	2385	2379	1734
55°	1682	1720	1782	1807	1792	1510
65°	1125	1150	1188	1184	1165	1113
75°	561	566	585	544	511	595
85°	100	98	95	76	70	130
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3874.7	3874.7	3874.7	3874.7	3874.7
2.5°	3893.8	3874.7	3849.3	3870.5	3866.3
5°	3859.9	3834.5	3832.4	3857.8	3838.7
7.5°	3817.5	3813.3	3787.9	3815.4	3804.8
10°	3762.5	3758.2	3749.7	3768.8	3754.0
12.5°	3696.8	3692.5	3696.8	3707.4	3696.8
15°	3626.9	3633.2	3622.6	3645.9	3624.7
17.5°	3533.7	3540.0	3561.2	3569.7	3567.5
20°	3457.4	3461.6	3487.0	3520.9	3484.9
22.5°	3357.8	3368.4	3381.1	3442.6	3434.1
25°	3256.1	3271.0	3319.7	3366.3	3330.3
27.5°	3150.2	3165.0	3224.4	3258.2	3254.0
30°	3035.8	3050.6	3124.8	3171.4	3150.2
32.5°	2917.2	2942.6	3023.1	3063.3	3023.1
35°	2800.7	2813.4	2891.7	2923.5	2904.5
37.5°	2646.0	2694.7	2773.1	2794.3	2760.4
40°	2529.5	2531.6	2643.9	2643.9	2641.8
42.5°	2379.1	2413.0	2487.1	2527.4	2506.2
45°	2249.8	2260.4	2355.8	2385.4	2379.1
47.5°	2107.9	2150.3	2220.2	2254.1	2237.1
50°	1968.1	1997.7	2069.8	2114.3	2097.3
52.5°	1838.9	1862.2	1936.3	1961.7	1944.8
55°	1682.1	1720.2	1781.7	1807.1	1792.2
57.5°	1546.5	1574.0	1650.3	1658.8	1650.3
60°	1404.6	1436.3	1497.8	1504.1	1487.2
62.5°	1269.0	1290.2	1345.2	1347.4	1328.3
65°	1124.9	1150.3	1188.5	1184.2	1165.2
67.5°	983.0	999.9	1035.9	1021.1	999.9
70°	838.9	853.8	883.4	862.2	843.2
72.5°	699.1	709.7	735.1	703.3	680.0
75°	561.4	565.6	584.7	544.5	510.6
77.5°	425.8	430.1	440.6	400.4	362.3
80°	302.9	302.9	307.2	264.8	239.4
82.5°	190.7	190.7	188.5	156.8	141.9
85°	99.6	97.5	95.3	76.3	69.9
87.5°	36.0	36.0	29.7	27.5	29.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)