

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: P485175

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-3LO-30-120-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: P485175
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-30-120-EDD
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

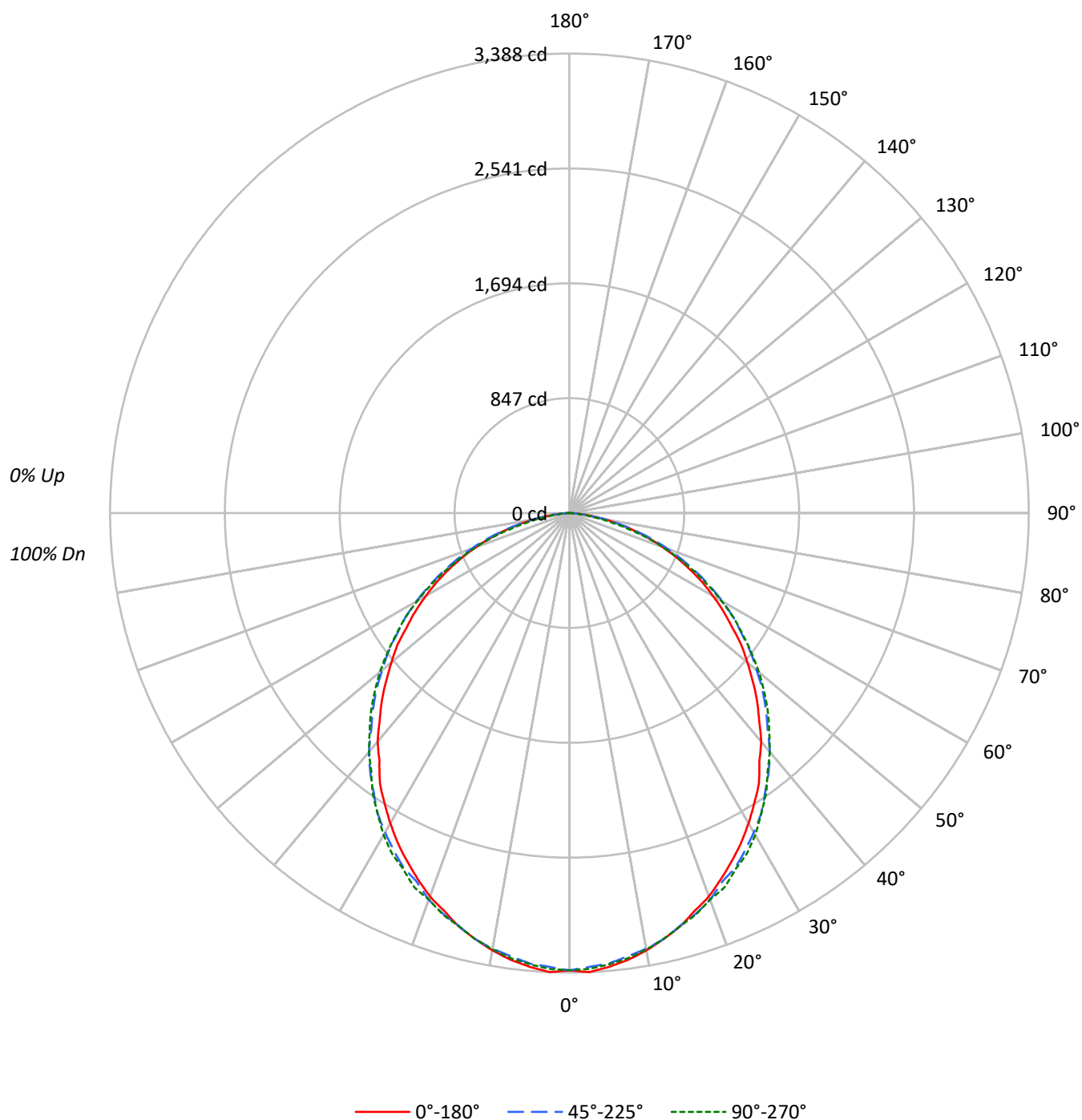
Lumens per Lamp: N/A
Luminaire Lumens: 8659.3 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9072	9072	9072
5°	9072	9007	9022
10°	8945	8915	8925
15°	8791	8781	8786
20°	8614	8688	8683
25°	8412	8576	8603
30°	8207	8448	8517
35°	8005	8265	8302
40°	7731	8081	8074
45°	7449	7800	7877
50°	7169	7539	7639
55°	6866	7273	7316
60°	6577	7014	6964
65°	6232	6584	6455
70°	5743	6047	5772
75°	5079	5289	4618
80°	4085	4142	3228
85°	2674	2560	1877



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.9	3.7
10°-20°	891.0	10.3
20°-30°	1326.6	15.3
30°-40°	1561.4	18.0
40°-50°	1565.5	18.1
50°-60°	1372.8	15.9
60°-70°	1003.9	11.6
70°-80°	517.4	6.0
80°-90°	103.8	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°	2534.4	29.3
0°-40°	4095.9	47.3
0°-60°	7034.3	81.2
0°-90°	8659.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8659.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3371	3371	3371	3371	3371	
5°	3358	3336	3334	3356	3340	318
15°	3156	3161	3152	3172	3154	888
25°	2833	2846	2888	2929	2898	1305
35°	2437	2448	2516	2544	2527	1518
45°	1958	1967	2050	2076	2070	1509
55°	1464	1497	1550	1572	1559	1314
65°	979	1001	1034	1030	1014	968
75°	488	492	509	474	444	518
85°	87	85	83	66	61	113
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3371.3	3371.3	3371.3	3371.3	3371.3
2.5°	3387.8	3371.3	3349.1	3367.6	3363.9
5°	3358.4	3336.2	3334.4	3356.5	3339.9
7.5°	3321.5	3317.8	3295.7	3319.6	3310.4
10°	3273.6	3269.9	3262.5	3279.1	3266.2
12.5°	3216.4	3212.7	3216.4	3225.6	3216.4
15°	3155.6	3161.1	3151.9	3172.2	3153.8
17.5°	3074.5	3080.0	3098.5	3105.8	3104.0
20°	3008.1	3011.8	3033.9	3063.4	3032.1
22.5°	2921.5	2930.7	2941.8	2995.2	2987.9
25°	2833.0	2845.9	2888.3	2928.9	2897.6
27.5°	2740.9	2753.8	2805.4	2834.9	2831.2
30°	2641.3	2654.2	2718.8	2759.3	2740.9
32.5°	2538.1	2560.2	2630.3	2665.3	2630.3
35°	2436.7	2447.8	2516.0	2543.7	2527.1
37.5°	2302.2	2344.6	2412.8	2431.2	2401.7
40°	2200.8	2202.7	2300.3	2300.3	2298.5
42.5°	2069.9	2099.4	2163.9	2199.0	2180.5
45°	1957.5	1966.7	2049.7	2075.5	2069.9
47.5°	1834.0	1870.9	1931.7	1961.2	1946.4
50°	1712.4	1738.2	1800.8	1839.5	1824.8
52.5°	1599.9	1620.2	1684.7	1706.8	1692.1
55°	1463.5	1496.7	1550.2	1572.3	1559.4
57.5°	1345.6	1369.5	1435.9	1443.2	1435.9
60°	1222.1	1249.7	1303.2	1308.7	1293.9
62.5°	1104.1	1122.5	1170.4	1172.3	1155.7
65°	978.8	1000.9	1034.0	1030.4	1013.8
67.5°	855.3	870.0	901.3	888.4	870.0
70°	729.9	742.8	768.6	750.2	733.6
72.5°	608.3	617.5	639.6	612.0	591.7
75°	488.5	492.1	508.7	473.7	444.2
77.5°	370.5	374.2	383.4	348.4	315.2
80°	263.6	263.6	267.3	230.4	208.3
82.5°	165.9	165.9	164.0	136.4	123.5
85°	86.6	84.8	82.9	66.4	60.8
87.5°	31.3	31.3	25.8	24.0	25.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)