

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: P485177

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-3LO-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: P485177
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-35-120-EDD
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

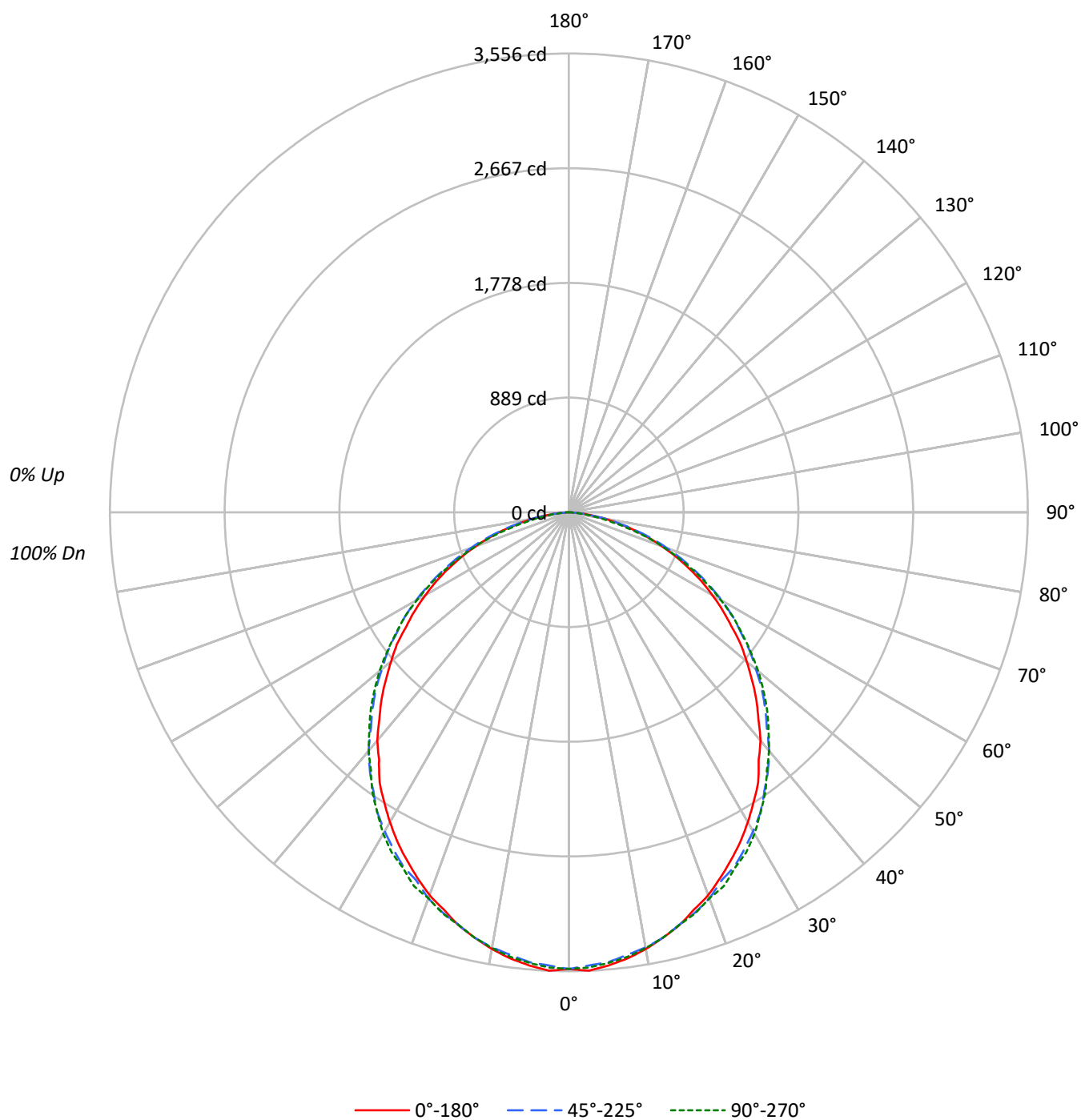
Lumens per Lamp: N/A
Luminaire Lumens: 9088.6 lumens
Efficiency: N/A
Efficacy: 129.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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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CATALOG NUMBER: ORLG-12-4-INS-A125-LD4-3LO-35-120-EDD

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	0			
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°	9522	9522	9522
5°	9522	9454	9469
10°	9389	9357	9367
15°	9227	9216	9222
20°	9041	9119	9113
25°	8829	9001	9030
30°	8614	8867	8939
35°	8402	8675	8713
40°	8114	8481	8475
45°	7819	8187	8268
50°	7524	7913	8018
55°	7207	7633	7679
60°	6903	7361	7309
65°	6541	6911	6775
70°	6028	6347	6058
75°	5331	5552	4847
80°	4286	4347	3388
85°	2807	2689	1970



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.6	3.7
10°-20°	935.2	10.3
20°-30°	1392.3	15.3
30°-40°	1638.9	18.0
40°-50°	1643.2	18.1
50°-60°	1440.9	15.9
60°-70°	1053.6	11.6
70°-80°	543.0	6.0
80°-90°	108.9	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°	2660.1	29.3
0°-40°	4299.0	47.3
0°-60°	7383.0	81.2
0°-90°	9088.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9088.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3538	3538	3538	3538	3538	
5°	3525	3502	3500	3523	3506	334
15°	3312	3318	3308	3330	3310	932
25°	2974	2987	3032	3074	3041	1370
35°	2558	2569	2641	2670	2652	1593
45°	2055	2064	2151	2178	2173	1583
55°	1536	1571	1627	1650	1637	1379
65°	1027	1050	1085	1081	1064	1016
75°	513	516	534	497	466	543
85°	91	89	87	70	64	119
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3538.4	3538.4	3538.4	3538.4	3538.4
2.5°	3555.8	3538.4	3515.2	3534.5	3530.7
5°	3524.9	3501.6	3499.7	3522.9	3505.5
7.5°	3486.2	3482.3	3459.1	3484.2	3474.6
10°	3435.9	3432.0	3424.3	3441.7	3428.1
12.5°	3375.9	3372.0	3375.9	3385.6	3375.9
15°	3312.0	3317.9	3308.2	3329.5	3310.1
17.5°	3226.9	3232.7	3252.1	3259.8	3257.9
20°	3157.3	3161.1	3184.4	3215.3	3182.4
22.5°	3066.4	3076.0	3087.6	3143.7	3136.0
25°	2973.5	2987.0	3031.5	3074.1	3041.2
27.5°	2876.8	2890.3	2944.5	2975.4	2971.6
30°	2772.3	2785.8	2853.5	2896.1	2876.8
32.5°	2664.0	2687.2	2760.7	2797.4	2760.7
35°	2557.6	2569.2	2640.7	2669.8	2652.3
37.5°	2416.3	2460.8	2532.4	2551.7	2520.8
40°	2309.9	2311.9	2414.4	2414.4	2412.5
42.5°	2172.6	2203.5	2271.2	2308.0	2288.6
45°	2054.6	2064.2	2151.3	2178.4	2172.6
47.5°	1924.9	1963.6	2027.5	2058.4	2042.9
50°	1797.2	1824.3	1890.1	1930.7	1915.3
52.5°	1679.2	1700.5	1768.2	1791.4	1776.0
55°	1536.1	1570.9	1627.0	1650.2	1636.7
57.5°	1412.3	1437.4	1507.1	1514.8	1507.1
60°	1282.6	1311.7	1367.8	1373.6	1358.1
62.5°	1158.8	1178.2	1228.5	1230.4	1213.0
65°	1027.3	1050.5	1085.3	1081.4	1064.0
67.5°	897.7	913.1	946.0	932.5	913.1
70°	766.1	779.6	806.7	787.4	770.0
72.5°	638.4	648.1	671.3	642.3	621.0
75°	512.7	516.5	534.0	497.2	466.2
77.5°	388.9	392.7	402.4	365.6	330.8
80°	276.6	276.6	280.5	241.8	218.6
82.5°	174.1	174.1	172.2	143.2	129.6
85°	90.9	89.0	87.1	69.6	63.8
87.5°	32.9	32.9	27.1	25.1	27.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)