

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: P485993

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-5HI-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: P485993
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-24-2-INS-A125-LD4-5HI-35-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

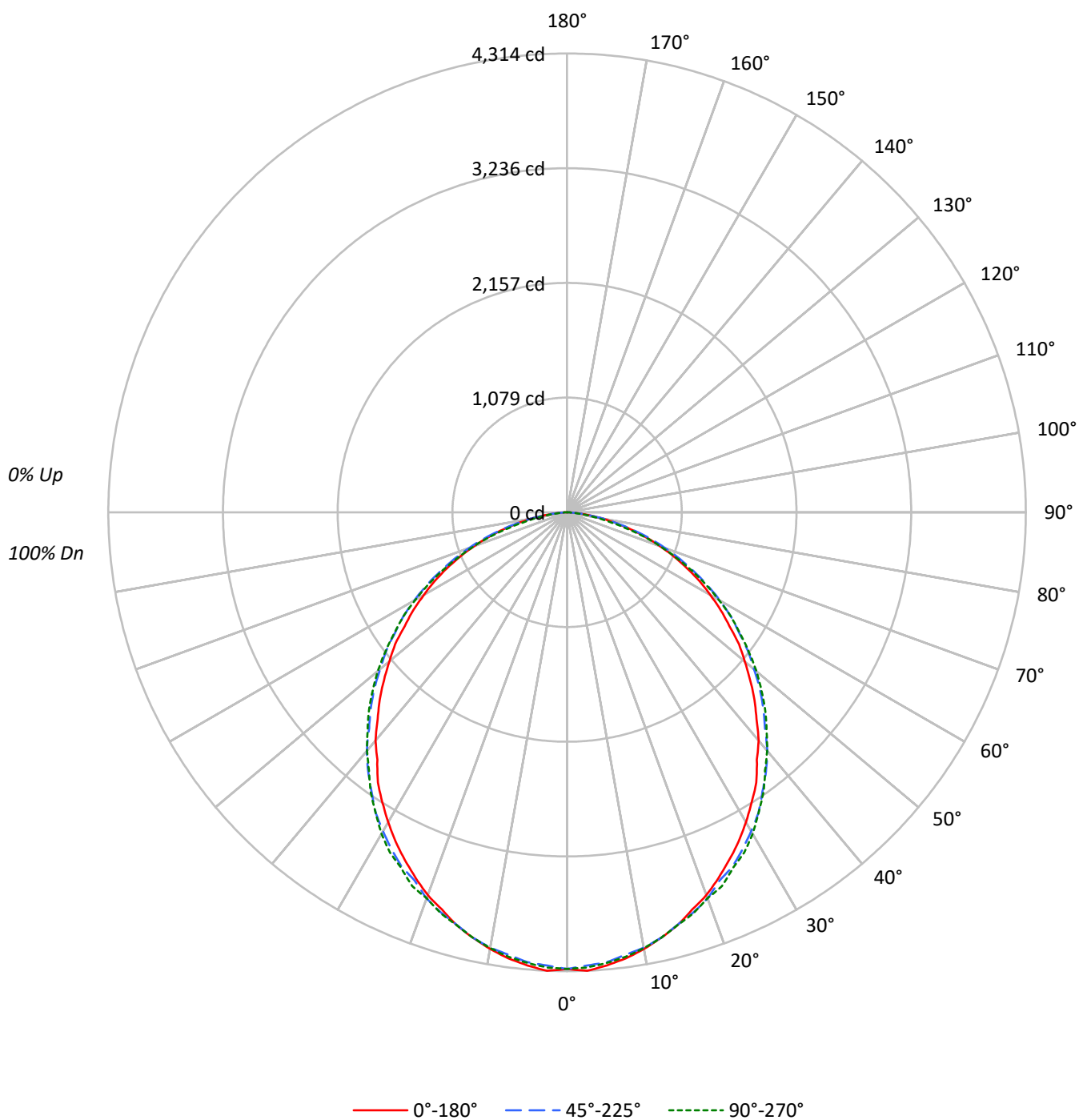
Lumens per Lamp: N/A
Luminaire Lumens: 11027.1 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 110
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-24-2-INS-A125-LD4-5HI-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					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°	11553	11553	11553
5°	11552	11470	11489
10°	11391	11352	11365
15°	11195	11182	11188
20°	10970	11064	11057
25°	10712	10921	10956
30°	10452	10758	10845
35°	10194	10525	10572
40°	9845	10290	10282
45°	9487	9933	10031
50°	9129	9601	9728
55°	8744	9261	9317
60°	8375	8931	8868
65°	7936	8385	8220
70°	7313	7701	7350
75°	6467	6735	5882
80°	5202	5274	4110
85°	3406	3260	2393



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	403.5	3.7
10°-20°	1134.7	10.3
20°-30°	1689.3	15.3
30°-40°	1988.4	18.0
40°-50°	1993.6	18.1
50°-60°	1748.2	15.9
60°-70°	1278.4	11.6
70°-80°	658.8	6.0
80°-90°	132.2	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°	3227.5	29.3
0°-40°	5215.9	47.3
0°-60°	8957.7	81.2
0°-90°	11027.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11027.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4293	4293	4293	4293	4293	
5°	4277	4248	4246	4274	4253	405
15°	4018	4026	4014	4040	4016	1131
25°	3608	3624	3678	3730	3690	1662
35°	3103	3117	3204	3239	3218	1932
45°	2493	2504	2610	2643	2636	1921
55°	1864	1906	1974	2002	1986	1673
65°	1246	1274	1317	1312	1291	1233
75°	622	627	648	603	566	659
85°	110	108	106	84	78	144
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4293.1	4293.1	4293.1	4293.1	4293.1
2.5°	4314.2	4293.1	4264.9	4288.4	4283.7
5°	4276.7	4248.5	4246.2	4274.3	4253.2
7.5°	4229.7	4225.0	4196.9	4227.4	4215.6
10°	4168.7	4164.0	4154.6	4175.7	4159.3
12.5°	4095.9	4091.2	4095.9	4107.7	4095.9
15°	4018.5	4025.5	4013.8	4039.6	4016.1
17.5°	3915.2	3922.2	3945.7	3955.1	3952.7
20°	3830.7	3835.4	3863.6	3901.1	3861.2
22.5°	3720.4	3732.1	3746.2	3814.3	3804.9
25°	3607.7	3624.1	3678.1	3729.8	3689.9
27.5°	3490.3	3506.8	3572.5	3610.1	3605.4
30°	3363.6	3380.0	3462.2	3513.8	3490.3
32.5°	3232.1	3260.3	3349.5	3394.1	3349.5
35°	3103.0	3117.1	3204.0	3239.2	3218.1
37.5°	2931.7	2985.7	3072.5	3096.0	3058.5
40°	2802.6	2804.9	2929.4	2929.4	2927.0
42.5°	2635.9	2673.5	2755.7	2800.3	2776.8
45°	2492.8	2504.5	2610.1	2643.0	2635.9
47.5°	2335.5	2382.4	2459.9	2497.5	2478.7
50°	2180.6	2213.4	2293.3	2342.5	2323.8
52.5°	2037.4	2063.2	2145.4	2173.5	2154.8
55°	1863.7	1906.0	1974.0	2002.2	1985.8
57.5°	1713.5	1744.0	1828.5	1837.9	1828.5
60°	1556.2	1591.4	1659.5	1666.5	1647.8
62.5°	1406.0	1429.5	1490.5	1492.8	1471.7
65°	1246.4	1274.5	1316.8	1312.1	1291.0
67.5°	1089.1	1107.9	1147.8	1131.4	1107.9
70°	929.5	945.9	978.8	955.3	934.2
72.5°	774.6	786.3	814.5	779.3	753.5
75°	622.0	626.7	647.8	603.2	565.7
77.5°	471.8	476.5	488.2	443.6	401.4
80°	335.7	335.7	340.3	293.4	265.2
82.5°	211.3	211.3	208.9	173.7	157.3
85°	110.3	108.0	105.6	84.5	77.5
87.5°	39.9	39.9	32.9	30.5	32.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)