

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: P486029

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-6HI-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: P486029
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-LD4-6HI-35-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

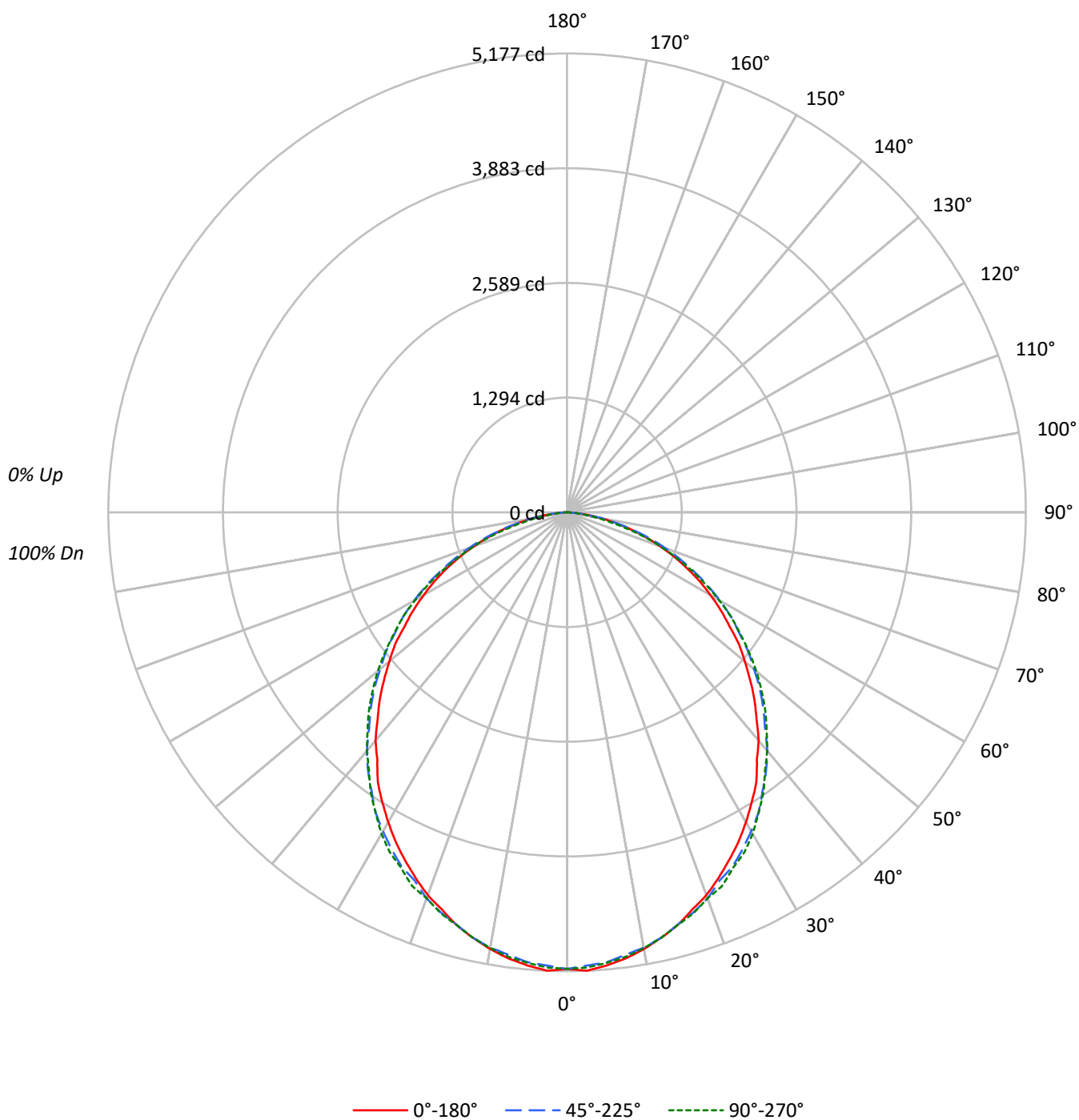
Lumens per Lamp: N/A
Luminaire Lumens: 13232.6 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P486029

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-6HI-35-120-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P486029

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-6HI-35-120-EDD

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°	13863	13863	13863
5°	13863	13764	13787
10°	13669	13623	13638
15°	13434	13419	13426
20°	13164	13277	13269
25°	12854	13105	13147
30°	12542	12909	13015
35°	12233	12630	12686
40°	11814	12348	12338
45°	11384	11920	12038
50°	10955	11521	11674
55°	10493	11113	11180
60°	10051	10718	10642
65°	9524	10062	9864
70°	8776	9242	8820
75°	7760	8083	7058
80°	6242	6329	4933
85°	4088	3915	2871



TEST NUMBER: P486029

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-6HI-35-120-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	484.2	3.7
10°-20°	1361.6	10.3
20°-30°	2027.2	15.3
30°-40°	2386.1	18.0
40°-50°	2392.4	18.1
50°-60°	2097.9	15.9
60°-70°	1534.1	11.6
70°-80°	790.6	6.0
80°-90°	158.6	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°	3873.0	29.3
0°-40°	6259.1	47.3
0°-60°	10749.4	81.2
0°-90°	13232.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13232.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5152	5152	5152	5152	5152	
5°	5132	5098	5095	5129	5104	486
15°	4822	4831	4817	4848	4819	1357
25°	4329	4349	4414	4476	4428	1994
35°	3724	3741	3845	3887	3862	2319
45°	2991	3005	3132	3172	3163	2305
55°	2236	2287	2369	2403	2383	2008
65°	1496	1530	1580	1574	1549	1480
75°	746	752	777	724	679	791
85°	132	130	127	101	93	173
90°	0	0	0	0	0	



TEST NUMBER: P486029

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-6HI-35-120-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5151.7	5151.7	5151.7	5151.7	5151.7
2.5°	5177.1	5151.7	5117.9	5146.1	5140.5
5°	5132.0	5098.2	5095.4	5129.2	5103.9
7.5°	5075.7	5070.1	5036.3	5072.9	5058.8
10°	5002.5	4996.8	4985.6	5010.9	4991.2
12.5°	4915.1	4909.5	4915.1	4929.2	4915.1
15°	4822.2	4830.6	4816.6	4847.5	4819.4
17.5°	4698.3	4706.7	4734.9	4746.1	4743.3
20°	4596.9	4602.5	4636.3	4681.4	4633.5
22.5°	4464.5	4478.6	4495.5	4577.1	4565.9
25°	4329.3	4349.0	4413.8	4475.7	4427.9
27.5°	4188.4	4208.2	4287.0	4332.1	4326.5
30°	4036.3	4056.1	4154.6	4216.6	4188.4
32.5°	3878.6	3912.4	4019.4	4073.0	4019.4
35°	3723.7	3740.6	3844.8	3887.0	3861.7
37.5°	3518.1	3582.8	3687.1	3715.2	3670.2
40°	3363.1	3366.0	3515.2	3515.2	3512.4
42.5°	3163.2	3208.2	3306.8	3360.3	3332.2
45°	2991.3	3005.4	3132.2	3171.6	3163.2
47.5°	2802.6	2859.0	2951.9	2997.0	2974.4
50°	2616.7	2656.1	2751.9	2811.1	2788.5
52.5°	2444.9	2475.9	2574.5	2608.3	2585.7
55°	2236.5	2287.2	2368.8	2402.6	2382.9
57.5°	2056.2	2092.8	2194.2	2205.5	2194.2
60°	1867.5	1909.7	1991.4	1999.9	1977.3
62.5°	1687.2	1715.4	1788.6	1791.4	1766.1
65°	1495.7	1529.5	1580.2	1574.5	1549.2
67.5°	1306.9	1329.5	1377.4	1357.7	1329.5
70°	1115.4	1135.1	1174.6	1146.4	1121.0
72.5°	929.5	943.6	977.4	935.1	904.2
75°	746.4	752.1	777.4	723.9	678.8
77.5°	566.2	571.8	585.9	532.4	481.7
80°	402.8	402.8	408.4	352.1	318.3
82.5°	253.5	253.5	250.7	208.4	188.7
85°	132.4	129.6	126.8	101.4	93.0
87.5°	47.9	47.9	39.4	36.6	39.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)