

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: P485897

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-2LO-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: P485897
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-LD4-2LO-35-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

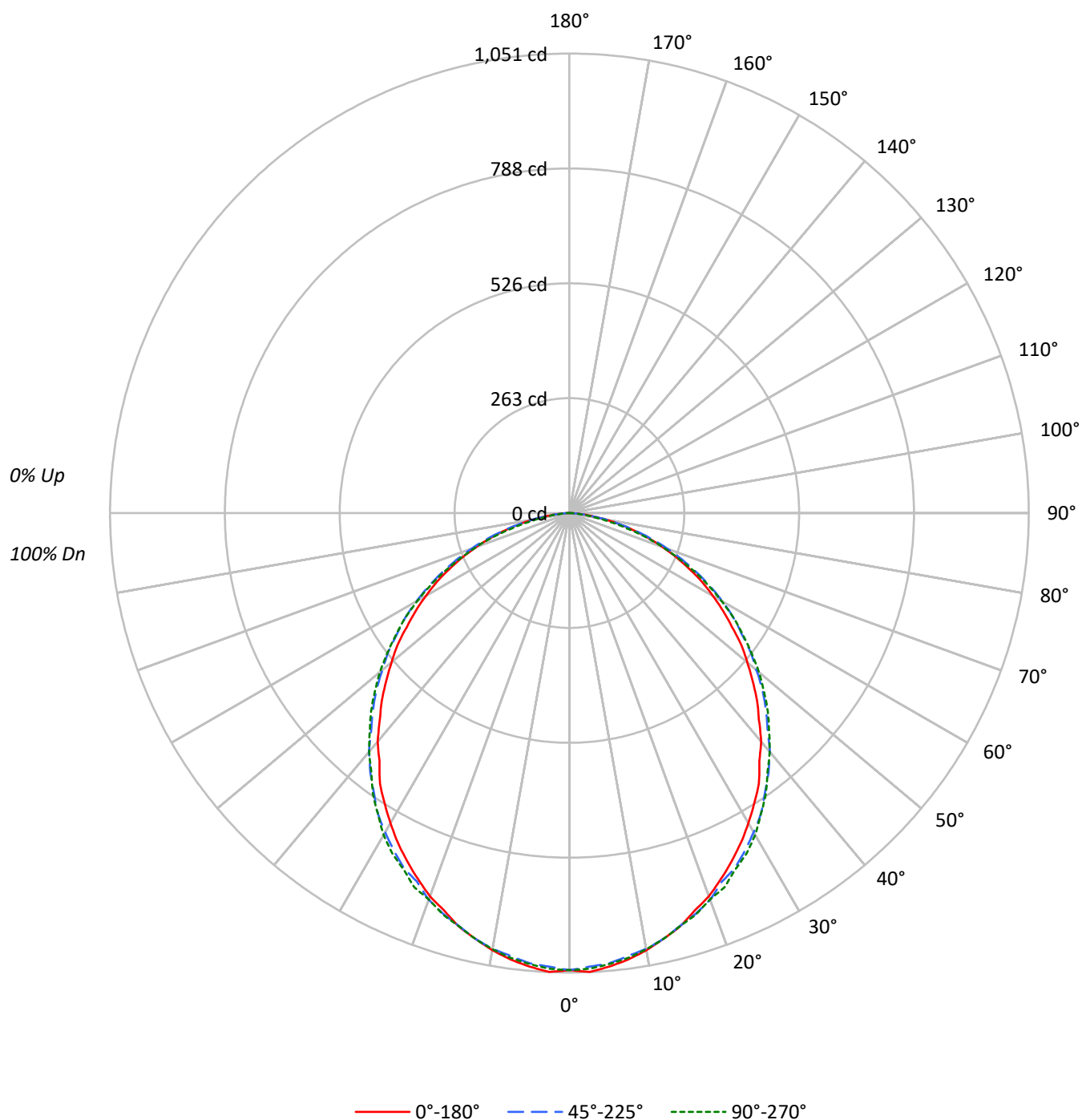
Lumens per Lamp: N/A
Luminaire Lumens: 2685.3 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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: P485897

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

Luminous Intensity Polar Plot





TEST NUMBER: P485897

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-2LO-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°	2813	2813	2813
5°	2813	2793	2798
10°	2774	2764	2768
15°	2726	2723	2725
20°	2671	2694	2693
25°	2608	2659	2668
30°	2545	2620	2641
35°	2482	2563	2575
40°	2398	2506	2504
45°	2310	2419	2443
50°	2223	2338	2369
55°	2129	2255	2269
60°	2040	2175	2160
65°	1933	2042	2002
70°	1781	1876	1790
75°	1575	1641	1433
80°	1266	1285	1001
85°	831	794	584



TEST NUMBER: P485897

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.3	3.7
10°-20°	276.3	10.3
20°-30°	411.4	15.3
30°-40°	484.2	18.0
40°-50°	485.5	18.1
50°-60°	425.7	15.9
60°-70°	311.3	11.6
70°-80°	160.4	6.0
80°-90°	32.2	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°	785.9	29.3
0°-40°	1270.2	47.3
0°-60°	2181.4	81.2
0°-90°	2685.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2685.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1045	1045	1045	1045	1045	
5°	1041	1035	1034	1041	1036	99
15°	979	980	977	984	978	275
25°	878	882	896	908	898	405
35°	756	759	780	789	784	471
45°	607	610	636	644	642	468
55°	454	464	481	488	484	407
65°	304	310	321	320	314	300
75°	152	153	158	147	138	161
85°	27	26	26	21	19	35
90°	0	0	0	0	0	



TEST NUMBER: P485897

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1045.4	1045.4	1045.4	1045.4	1045.4
2.5°	1050.6	1045.4	1038.6	1044.3	1043.2
5°	1041.4	1034.6	1034.0	1040.9	1035.7
7.5°	1030.0	1028.9	1022.0	1029.4	1026.6
10°	1015.2	1014.0	1011.7	1016.9	1012.9
12.5°	997.4	996.3	997.4	1000.3	997.4
15°	978.6	980.3	977.4	983.7	978.0
17.5°	953.4	955.1	960.9	963.1	962.6
20°	932.8	934.0	940.8	950.0	940.3
22.5°	906.0	908.8	912.3	928.8	926.6
25°	878.5	882.5	895.7	908.3	898.5
27.5°	850.0	854.0	870.0	879.1	878.0
30°	819.1	823.1	843.1	855.7	850.0
32.5°	787.1	793.9	815.7	826.5	815.7
35°	755.6	759.1	780.2	788.8	783.7
37.5°	713.9	727.1	748.2	753.9	744.8
40°	682.5	683.1	713.4	713.4	712.8
42.5°	641.9	651.0	671.1	681.9	676.2
45°	607.0	609.9	635.6	643.6	641.9
47.5°	568.7	580.2	599.0	608.2	603.6
50°	531.0	539.0	558.4	570.5	565.9
52.5°	496.1	502.4	522.4	529.3	524.7
55°	453.8	464.1	480.7	487.6	483.6
57.5°	417.3	424.7	445.3	447.6	445.3
60°	379.0	387.5	404.1	405.8	401.3
62.5°	342.4	348.1	363.0	363.5	358.4
65°	303.5	310.4	320.7	319.5	314.4
67.5°	265.2	269.8	279.5	275.5	269.8
70°	226.4	230.4	238.4	232.6	227.5
72.5°	188.6	191.5	198.3	189.8	183.5
75°	151.5	152.6	157.8	146.9	137.8
77.5°	114.9	116.0	118.9	108.0	97.7
80°	81.7	81.7	82.9	71.4	64.6
82.5°	51.4	51.4	50.9	42.3	38.3
85°	26.9	26.3	25.7	20.6	18.9
87.5°	9.7	9.7	8.0	7.4	8.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)