

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: P487152

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-1LO-27-120-EDD-90**

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: P487152
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-24-4-INS-A125-LD4-1LO-27-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

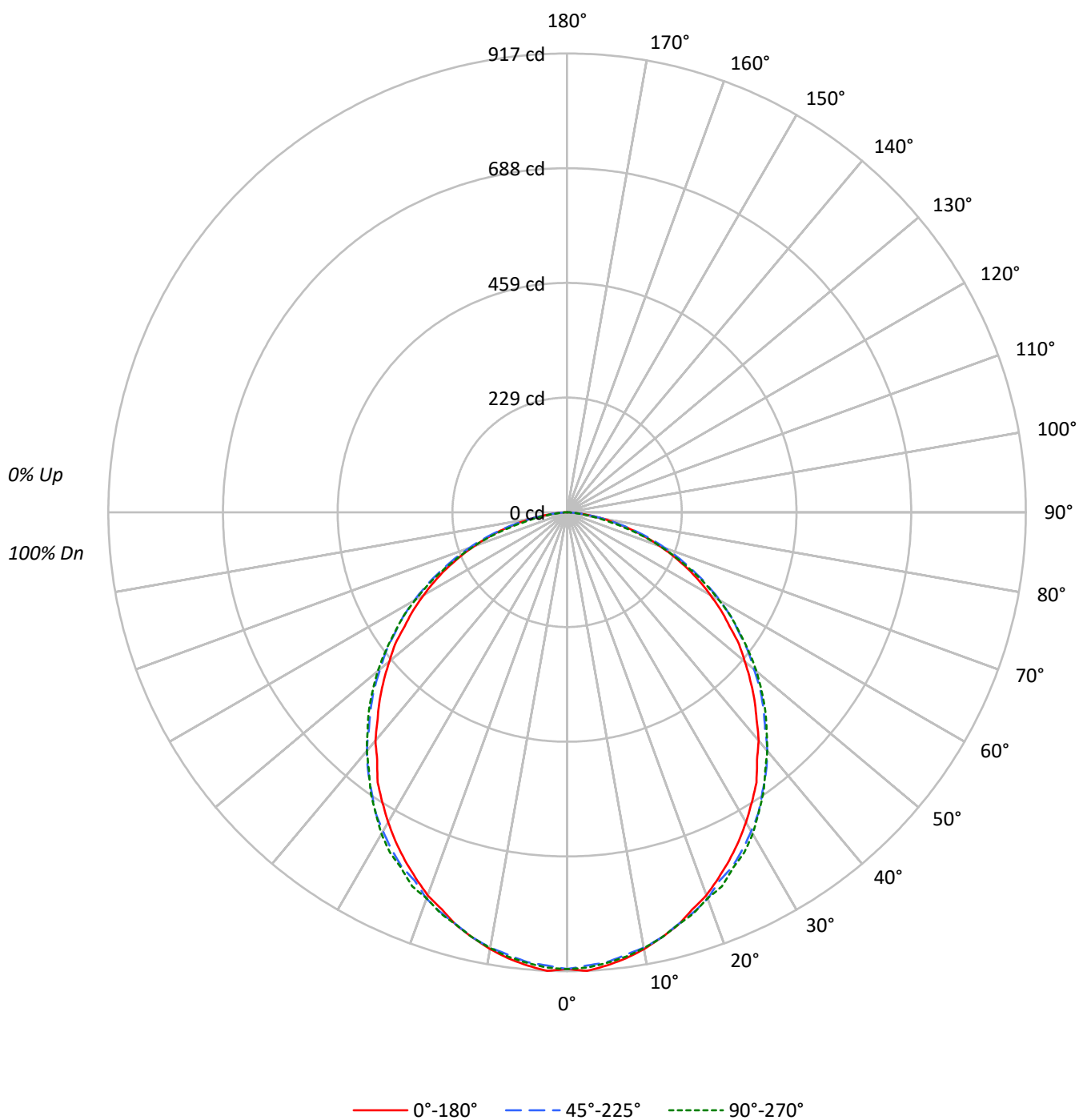
Lumens per Lamp: N/A
Luminaire Lumens: 2344.3 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

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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
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°	1228	1228	1228
5°	1228	1219	1221
10°	1211	1207	1208
15°	1190	1189	1189
20°	1166	1176	1175
25°	1139	1161	1165
30°	1111	1143	1153
35°	1084	1119	1124
40°	1046	1094	1093
45°	1008	1056	1066
50°	970	1020	1034
55°	929	985	990
60°	890	949	943
65°	844	891	874
70°	777	819	781
75°	687	716	625
80°	553	561	437
85°	363	347	255



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.8	3.7
10°-20°	241.2	10.3
20°-30°	359.1	15.3
30°-40°	422.7	18.0
40°-50°	423.8	18.1
50°-60°	371.7	15.9
60°-70°	271.8	11.6
70°-80°	140.1	6.0
80°-90°	28.1	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°	686.1	29.3
0°-40°	1108.9	47.3
0°-60°	1904.4	81.2
0°-90°	2344.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2344.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	913	913	913	913	913	
5°	909	903	903	909	904	86
15°	854	856	853	859	854	240
25°	767	770	782	793	784	353
35°	660	663	681	689	684	411
45°	530	532	555	562	560	408
55°	396	405	420	426	422	356
65°	265	271	280	279	274	262
75°	132	133	138	128	120	140
85°	24	23	22	18	16	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	912.7	912.7	912.7	912.7	912.7
2.5°	917.2	912.7	906.7	911.7	910.7
5°	909.2	903.2	902.7	908.7	904.2
7.5°	899.2	898.2	892.2	898.7	896.2
10°	886.2	885.2	883.2	887.7	884.2
12.5°	870.8	869.8	870.8	873.3	870.8
15°	854.3	855.8	853.3	858.8	853.8
17.5°	832.3	833.8	838.8	840.8	840.3
20°	814.4	815.4	821.4	829.4	820.9
22.5°	790.9	793.4	796.4	810.9	808.9
25°	767.0	770.5	781.9	792.9	784.4
27.5°	742.0	745.5	759.5	767.5	766.5
30°	715.1	718.6	736.0	747.0	742.0
32.5°	687.1	693.1	712.1	721.6	712.1
35°	659.7	662.7	681.1	688.6	684.1
37.5°	623.3	634.7	653.2	658.2	650.2
40°	595.8	596.3	622.8	622.8	622.3
42.5°	560.4	568.4	585.8	595.3	590.3
45°	529.9	532.4	554.9	561.9	560.4
47.5°	496.5	506.5	523.0	530.9	527.0
50°	463.6	470.6	487.5	498.0	494.0
52.5°	433.1	438.6	456.1	462.1	458.1
55°	396.2	405.2	419.7	425.7	422.2
57.5°	364.3	370.8	388.7	390.7	388.7
60°	330.8	338.3	352.8	354.3	350.3
62.5°	298.9	303.9	316.9	317.4	312.9
65°	265.0	271.0	279.9	278.9	274.5
67.5°	231.5	235.5	244.0	240.5	235.5
70°	197.6	201.1	208.1	203.1	198.6
72.5°	164.7	167.2	173.2	165.7	160.2
75°	132.2	133.2	137.7	128.2	120.3
77.5°	100.3	101.3	103.8	94.3	85.3
80°	71.4	71.4	72.4	62.4	56.4
82.5°	44.9	44.9	44.4	36.9	33.4
85°	23.5	23.0	22.5	18.0	16.5
87.5°	8.5	8.5	7.0	6.5	7.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)