

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: P487154

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-1LO-30-120-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: P487154
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-30-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

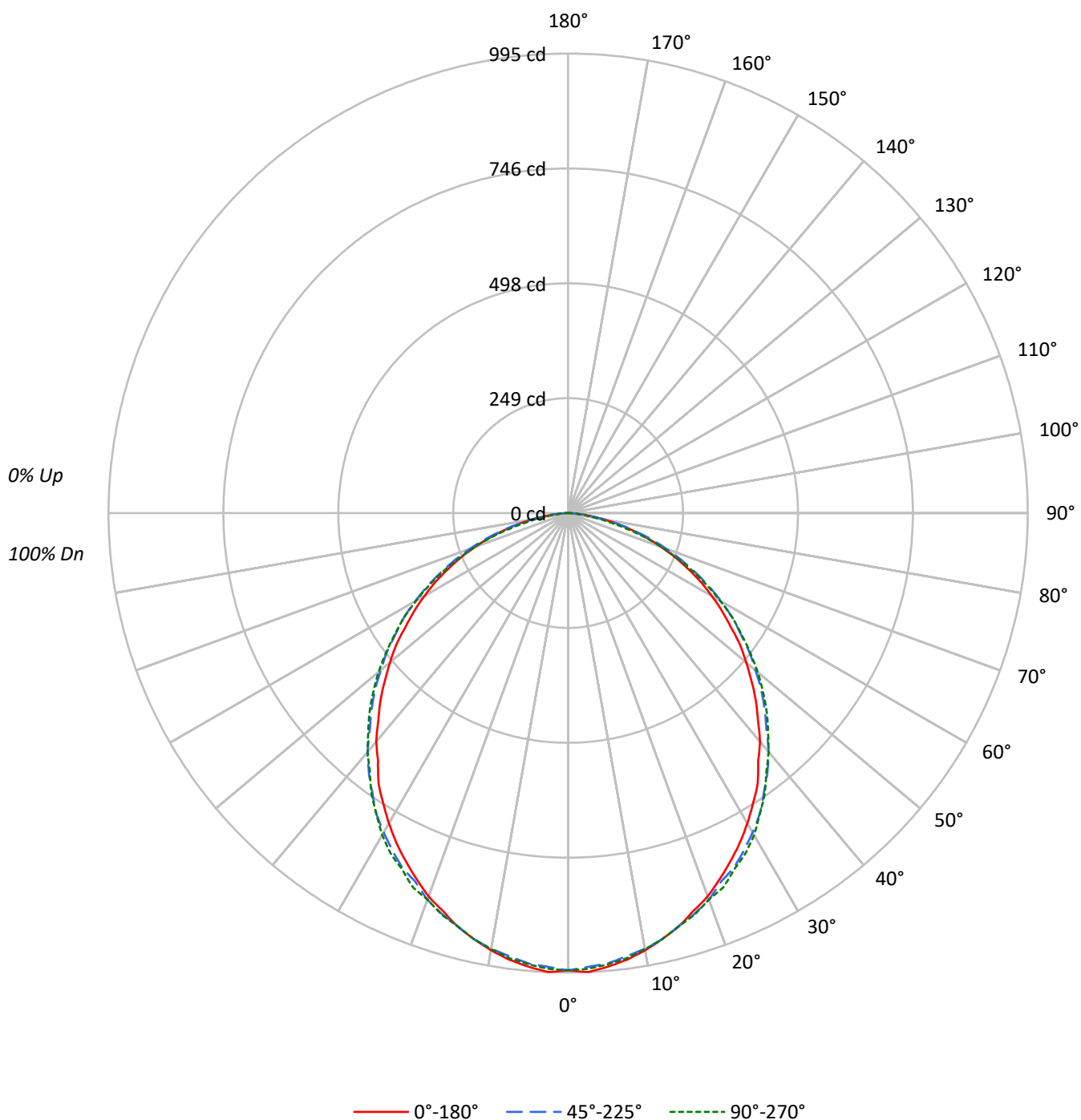
Lumens per Lamp: N/A
Luminaire Lumens: 2542.9 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	1332	1332	1332
5°	1332	1323	1325
10°	1313	1309	1311
15°	1291	1289	1290
20°	1265	1276	1275
25°	1235	1259	1263
30°	1205	1240	1251
35°	1175	1214	1219
40°	1135	1186	1186
45°	1094	1145	1157
50°	1053	1107	1122
55°	1008	1068	1074
60°	966	1030	1023
65°	915	967	948
70°	843	888	847
75°	745	777	678
80°	600	608	474
85°	392	377	276



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.1	3.7
10°-20°	261.7	10.3
20°-30°	389.6	15.3
30°-40°	458.5	18.0
40°-50°	459.7	18.1
50°-60°	403.1	15.9
60°-70°	294.8	11.6
70°-80°	151.9	6.0
80°-90°	30.5	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°	744.3	29.3
0°-40°	1202.8	47.3
0°-60°	2065.7	81.2
0°-90°	2542.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2542.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	990	990	990	990	990	
5°	986	980	979	986	981	93
15°	927	928	926	932	926	261
25°	832	836	848	860	851	383
35°	716	719	739	747	742	446
45°	575	578	602	610	608	443
55°	430	440	455	462	458	386
65°	287	294	304	303	298	284
75°	143	144	149	139	130	152
85°	25	25	24	20	18	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	990.0	990.0	990.0	990.0	990.0
2.5°	994.9	990.0	983.5	988.9	987.8
5°	986.2	979.7	979.2	985.7	980.8
7.5°	975.4	974.3	967.8	974.9	972.1
10°	961.3	960.2	958.1	962.9	959.2
12.5°	944.5	943.5	944.5	947.2	944.5
15°	926.7	928.3	925.6	931.5	926.1
17.5°	902.9	904.5	909.9	912.1	911.5
20°	883.4	884.5	891.0	899.6	890.4
22.5°	857.9	860.6	863.9	879.6	877.4
25°	832.0	835.7	848.2	860.1	850.9
27.5°	804.9	808.7	823.8	832.5	831.4
30°	775.7	779.4	798.4	810.3	804.9
32.5°	745.3	751.8	772.4	782.7	772.4
35°	715.6	718.8	738.9	747.0	742.1
37.5°	676.1	688.5	708.5	714.0	705.3
40°	646.3	646.8	675.5	675.5	675.0
42.5°	607.9	616.5	635.5	645.8	640.3
45°	574.8	577.5	601.9	609.5	607.9
47.5°	538.6	549.4	567.3	575.9	571.6
50°	502.9	510.4	528.8	540.2	535.9
52.5°	469.8	475.8	494.7	501.2	496.9
55°	429.8	439.5	455.2	461.7	457.9
57.5°	395.1	402.2	421.7	423.8	421.7
60°	358.9	367.0	382.7	384.3	380.0
62.5°	324.2	329.6	343.7	344.3	339.4
65°	287.4	293.9	303.7	302.6	297.7
67.5°	251.2	255.5	264.7	260.9	255.5
70°	214.3	218.1	225.7	220.3	215.4
72.5°	178.6	181.3	187.8	179.7	173.8
75°	143.4	144.5	149.4	139.1	130.4
77.5°	108.8	109.9	112.6	102.3	92.6
80°	77.4	77.4	78.5	67.7	61.2
82.5°	48.7	48.7	48.2	40.1	36.3
85°	25.4	24.9	24.4	19.5	17.9
87.5°	9.2	9.2	7.6	7.0	7.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)