

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: P487155

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-1LO-30-120-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: P487155
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
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

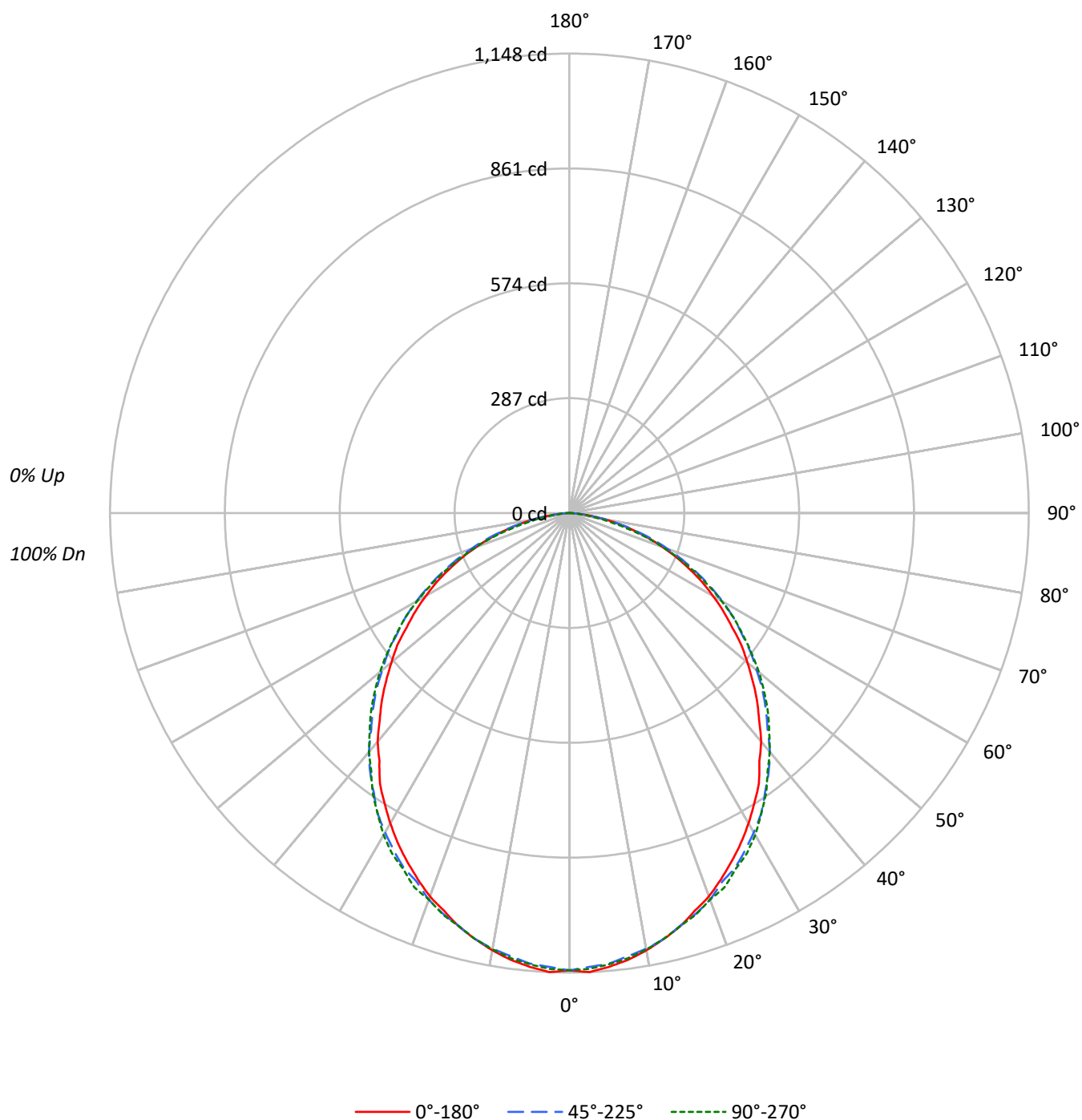
Lumens per Lamp: N/A
Luminaire Lumens: 2934.2 lumens
Efficiency: N/A
Efficacy: 125.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	1537	1537	1537
5°	1537	1526	1529
10°	1515	1510	1512
15°	1489	1488	1489
20°	1459	1472	1471
25°	1425	1453	1458
30°	1391	1431	1443
35°	1356	1400	1407
40°	1310	1369	1368
45°	1262	1322	1335
50°	1214	1277	1294
55°	1163	1232	1240
60°	1114	1188	1180
65°	1056	1116	1094
70°	973	1024	978
75°	860	896	782
80°	692	702	547
85°	454	434	318



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.4	3.7
10°-20°	301.9	10.3
20°-30°	449.5	15.3
30°-40°	529.1	18.0
40°-50°	530.5	18.1
50°-60°	465.2	15.9
60°-70°	340.1	11.6
70°-80°	175.3	6.0
80°-90°	35.2	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°	858.8	29.3
0°-40°	1387.9	47.3
0°-60°	2383.6	81.2
0°-90°	2934.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2934.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1142	1142	1142	1142	1142	
5°	1138	1130	1130	1137	1132	108
15°	1069	1071	1068	1075	1069	301
25°	960	964	979	992	982	442
35°	826	829	852	862	856	514
45°	663	666	694	703	701	511
55°	496	507	525	533	528	445
65°	332	339	350	349	344	328
75°	166	167	172	160	150	175
85°	29	29	28	22	21	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1142.3	1142.3	1142.3	1142.3	1142.3
2.5°	1148.0	1142.3	1134.9	1141.1	1139.9
5°	1138.0	1130.5	1129.9	1137.4	1131.7
7.5°	1125.5	1124.2	1116.7	1124.9	1121.7
10°	1109.2	1108.0	1105.5	1111.1	1106.7
12.5°	1089.9	1088.6	1089.9	1093.0	1089.9
15°	1069.3	1071.1	1068.0	1074.9	1068.6
17.5°	1041.8	1043.7	1049.9	1052.4	1051.8
20°	1019.3	1020.6	1028.1	1038.0	1027.4
22.5°	990.0	993.1	996.8	1014.9	1012.4
25°	960.0	964.3	978.7	992.5	981.8
27.5°	928.7	933.1	950.6	960.6	959.3
30°	895.0	899.4	921.2	935.0	928.7
32.5°	860.0	867.5	891.3	903.1	891.3
35°	825.7	829.4	852.5	861.9	856.3
37.5°	780.1	794.5	817.6	823.8	813.8
40°	745.7	746.4	779.5	779.5	778.8
42.5°	701.4	711.4	733.3	745.1	738.9
45°	663.3	666.4	694.5	703.3	701.4
47.5°	621.5	633.9	654.6	664.5	659.6
50°	580.2	589.0	610.2	623.3	618.3
52.5°	542.1	549.0	570.9	578.4	573.4
55°	495.9	507.2	525.3	532.8	528.4
57.5°	455.9	464.1	486.5	489.0	486.5
60°	414.1	423.5	441.6	443.4	438.5
62.5°	374.1	380.4	396.6	397.2	391.6
65°	331.6	339.1	350.4	349.1	343.5
67.5°	289.8	294.8	305.4	301.0	294.8
70°	247.3	251.7	260.4	254.2	248.6
72.5°	206.1	209.2	216.7	207.4	200.5
75°	165.5	166.8	172.4	160.5	150.5
77.5°	125.5	126.8	129.9	118.0	106.8
80°	89.3	89.3	90.6	78.1	70.6
82.5°	56.2	56.2	55.6	46.2	41.8
85°	29.4	28.7	28.1	22.5	20.6
87.5°	10.6	10.6	8.7	8.1	8.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)