

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: P485114

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-1STD-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: P485114
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-12-4-INS-A125-LD4-1STD-30-120-EDD-90
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

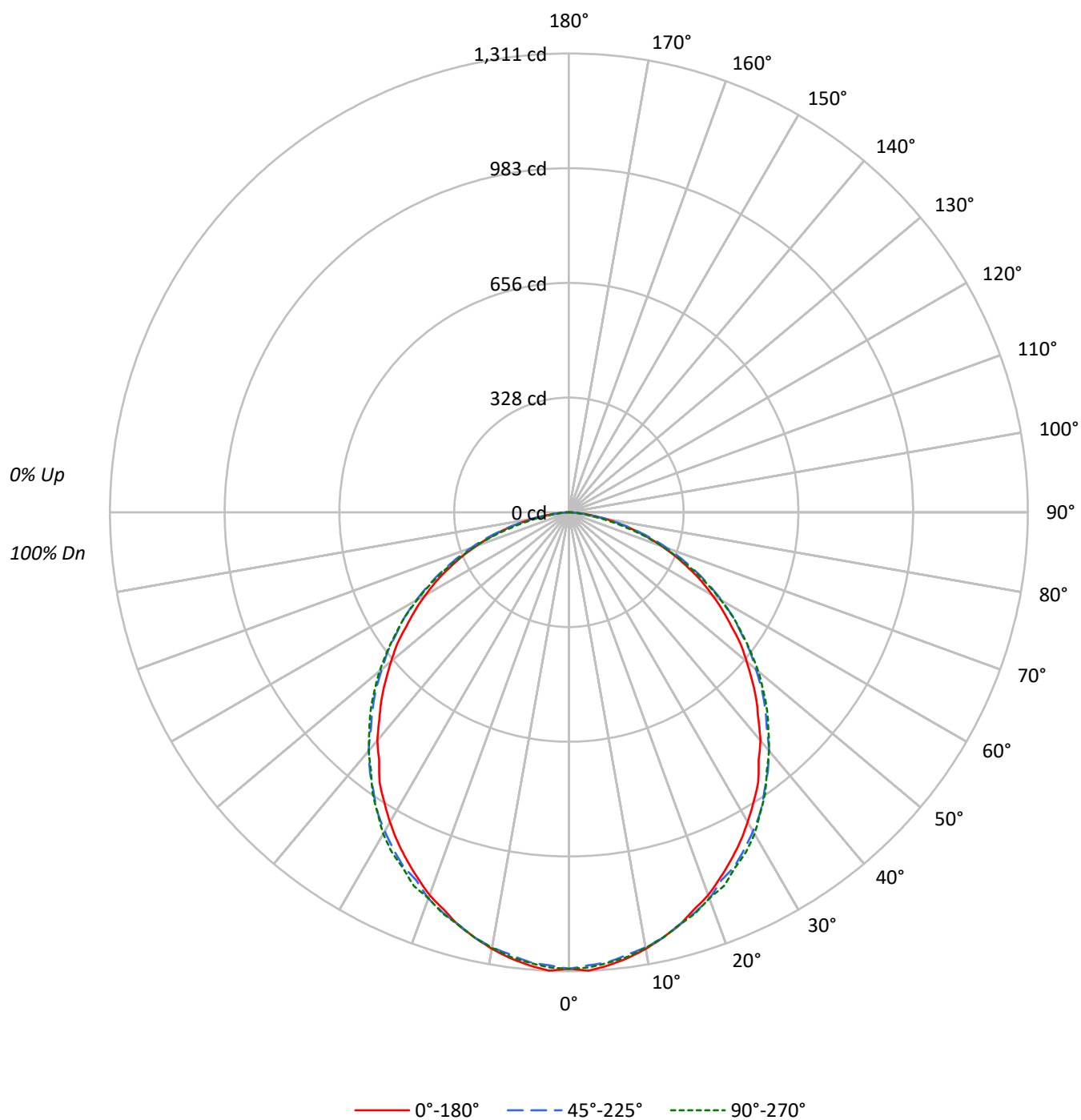
Lumens per Lamp: N/A
Luminaire Lumens: 3350.0 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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°	3510	3510	3510
5°	3509	3485	3490
10°	3460	3449	3453
15°	3401	3397	3399
20°	3333	3361	3359
25°	3254	3318	3328
30°	3175	3268	3295
35°	3097	3198	3211
40°	2991	3126	3124
45°	2882	3017	3048
50°	2774	2917	2956
55°	2656	2814	2830
60°	2545	2714	2694
65°	2411	2547	2497
70°	2222	2340	2233
75°	1965	2046	1787
80°	1581	1602	1249
85°	1034	991	726



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.6	3.7
10°-20°	344.7	10.3
20°-30°	513.2	15.3
30°-40°	604.1	18.0
40°-50°	605.7	18.1
50°-60°	531.1	15.9
60°-70°	388.4	11.6
70°-80°	200.1	6.0
80°-90°	40.2	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°	980.5	29.3
0°-40°	1584.6	47.3
0°-60°	2721.3	81.2
0°-90°	3350.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3350.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1304	1304	1304	1304	1304	
5°	1299	1291	1290	1298	1292	123
15°	1221	1223	1219	1227	1220	344
25°	1096	1101	1117	1133	1121	505
35°	943	947	973	984	978	587
45°	757	761	793	803	801	584
55°	566	579	600	608	603	508
65°	379	387	400	399	392	375
75°	189	190	197	183	172	200
85°	34	33	32	26	24	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1304.2	1304.2	1304.2	1304.2	1304.2
2.5°	1310.6	1304.2	1295.7	1302.8	1301.4
5°	1299.2	1290.7	1290.0	1298.5	1292.1
7.5°	1285.0	1283.6	1275.0	1284.3	1280.7
10°	1266.4	1265.0	1262.2	1268.6	1263.6
12.5°	1244.3	1242.9	1244.3	1247.9	1244.3
15°	1220.8	1222.9	1219.4	1227.2	1220.1
17.5°	1189.4	1191.6	1198.7	1201.5	1200.8
20°	1163.8	1165.2	1173.7	1185.1	1173.0
22.5°	1130.2	1133.8	1138.1	1158.8	1155.9
25°	1096.0	1101.0	1117.4	1133.1	1121.0
27.5°	1060.4	1065.3	1085.3	1096.7	1095.3
30°	1021.8	1026.8	1051.8	1067.5	1060.4
32.5°	981.9	990.5	1017.6	1031.1	1017.6
35°	942.7	947.0	973.4	984.1	977.6
37.5°	890.6	907.0	933.4	940.6	929.1
40°	851.4	852.1	889.9	889.9	889.2
42.5°	800.8	812.2	837.2	850.7	843.6
45°	757.3	760.9	792.9	802.9	800.8
47.5°	709.5	723.8	747.3	758.7	753.0
50°	662.5	672.4	696.7	711.7	706.0
52.5°	619.0	626.8	651.8	660.3	654.6
55°	566.2	579.0	599.7	608.3	603.3
57.5°	520.6	529.8	555.5	558.3	555.5
60°	472.8	483.5	504.2	506.3	500.6
62.5°	427.1	434.3	452.8	453.5	447.1
65°	378.6	387.2	400.0	398.6	392.2
67.5°	330.9	336.6	348.7	343.7	336.6
70°	282.4	287.4	297.4	290.2	283.8
72.5°	235.3	238.9	247.4	236.7	228.9
75°	189.0	190.4	196.8	183.3	171.9
77.5°	143.3	144.8	148.3	134.8	121.9
80°	102.0	102.0	103.4	89.1	80.6
82.5°	64.2	64.2	63.5	52.8	47.8
85°	33.5	32.8	32.1	25.7	23.5
87.5°	12.1	12.1	10.0	9.3	10.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)