

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: P485109

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-1LO-50-120-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: P485109
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-LD4-1LO-50-120-EDD
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

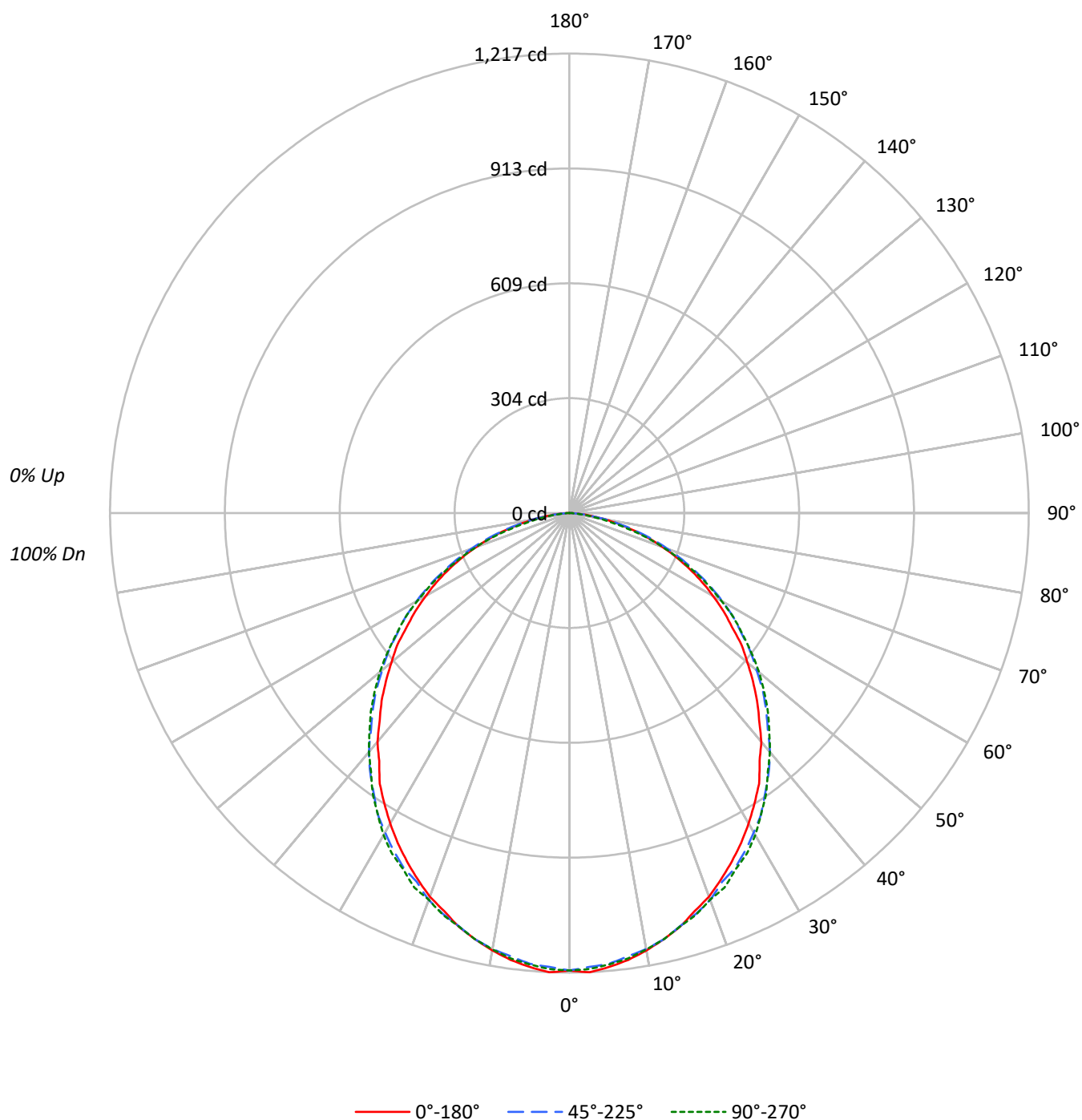
Lumens per Lamp: N/A
Luminaire Lumens: 3111.7 lumens
Efficiency: N/A
Efficacy: 133.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	3260	3260	3260
5°	3260	3237	3242
10°	3214	3204	3207
15°	3159	3155	3157
20°	3096	3122	3120
25°	3023	3082	3091
30°	2949	3036	3060
35°	2876	2970	2983
40°	2778	2904	2902
45°	2677	2803	2831
50°	2576	2709	2745
55°	2467	2613	2629
60°	2363	2520	2503
65°	2239	2366	2320
70°	2064	2173	2074
75°	1825	1901	1659
80°	1468	1488	1159
85°	960	920	676



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.9	3.7
10°-20°	320.2	10.3
20°-30°	476.7	15.3
30°-40°	561.1	18.0
40°-50°	562.6	18.1
50°-60°	493.3	15.9
60°-70°	360.7	11.6
70°-80°	185.9	6.0
80°-90°	37.3	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°	910.7	29.3
0°-40°	1471.9	47.3
0°-60°	2527.7	81.2
0°-90°	3111.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3111.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1212	1212	1212	1212	1212	
5°	1207	1199	1198	1206	1200	114
15°	1134	1136	1133	1140	1133	319
25°	1018	1023	1038	1052	1041	469
35°	876	880	904	914	908	545
45°	703	707	736	746	744	542
55°	526	538	557	565	560	472
65°	352	360	372	370	364	348
75°	176	177	183	170	160	186
85°	31	30	30	24	22	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1211.5	1211.5	1211.5	1211.5	1211.5
2.5°	1217.4	1211.5	1203.5	1210.1	1208.8
5°	1206.8	1198.9	1198.2	1206.2	1200.2
7.5°	1193.6	1192.2	1184.3	1192.9	1189.6
10°	1176.3	1175.0	1172.4	1178.3	1173.7
12.5°	1155.8	1154.5	1155.8	1159.1	1155.8
15°	1134.0	1135.9	1132.6	1139.9	1133.3
17.5°	1104.8	1106.8	1113.4	1116.1	1115.4
20°	1081.0	1082.3	1090.2	1100.8	1089.6
22.5°	1049.8	1053.2	1057.1	1076.3	1073.7
25°	1018.0	1022.7	1037.9	1052.5	1041.2
27.5°	984.9	989.6	1008.1	1018.7	1017.4
30°	949.2	953.8	977.0	991.6	984.9
32.5°	912.1	920.0	945.2	957.8	945.2
35°	875.6	879.6	904.1	914.1	908.1
37.5°	827.3	842.5	867.0	873.7	863.1
40°	790.9	791.5	826.6	826.6	826.0
42.5°	743.8	754.4	777.6	790.2	783.6
45°	703.4	706.7	736.5	745.8	743.8
47.5°	659.0	672.3	694.2	704.7	699.5
50°	615.3	624.6	647.1	661.0	655.7
52.5°	574.9	582.2	605.4	613.3	608.0
55°	525.9	537.8	557.0	565.0	560.4
57.5°	483.5	492.1	516.0	518.6	516.0
60°	439.1	449.1	468.3	470.3	465.0
62.5°	396.8	403.4	420.6	421.3	415.3
65°	351.7	359.7	371.6	370.3	364.3
67.5°	307.3	312.6	323.9	319.3	312.6
70°	262.3	266.9	276.2	269.6	263.6
72.5°	218.6	221.9	229.8	219.9	212.6
75°	175.5	176.8	182.8	170.2	159.6
77.5°	133.1	134.5	137.8	125.2	113.3
80°	94.7	94.7	96.0	82.8	74.8
82.5°	59.6	59.6	58.9	49.0	44.4
85°	31.1	30.5	29.8	23.8	21.9
87.5°	11.3	11.3	9.3	8.6	9.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)