

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: P485105

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-1LO-35-120-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: P485105
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-35-120-EDD
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

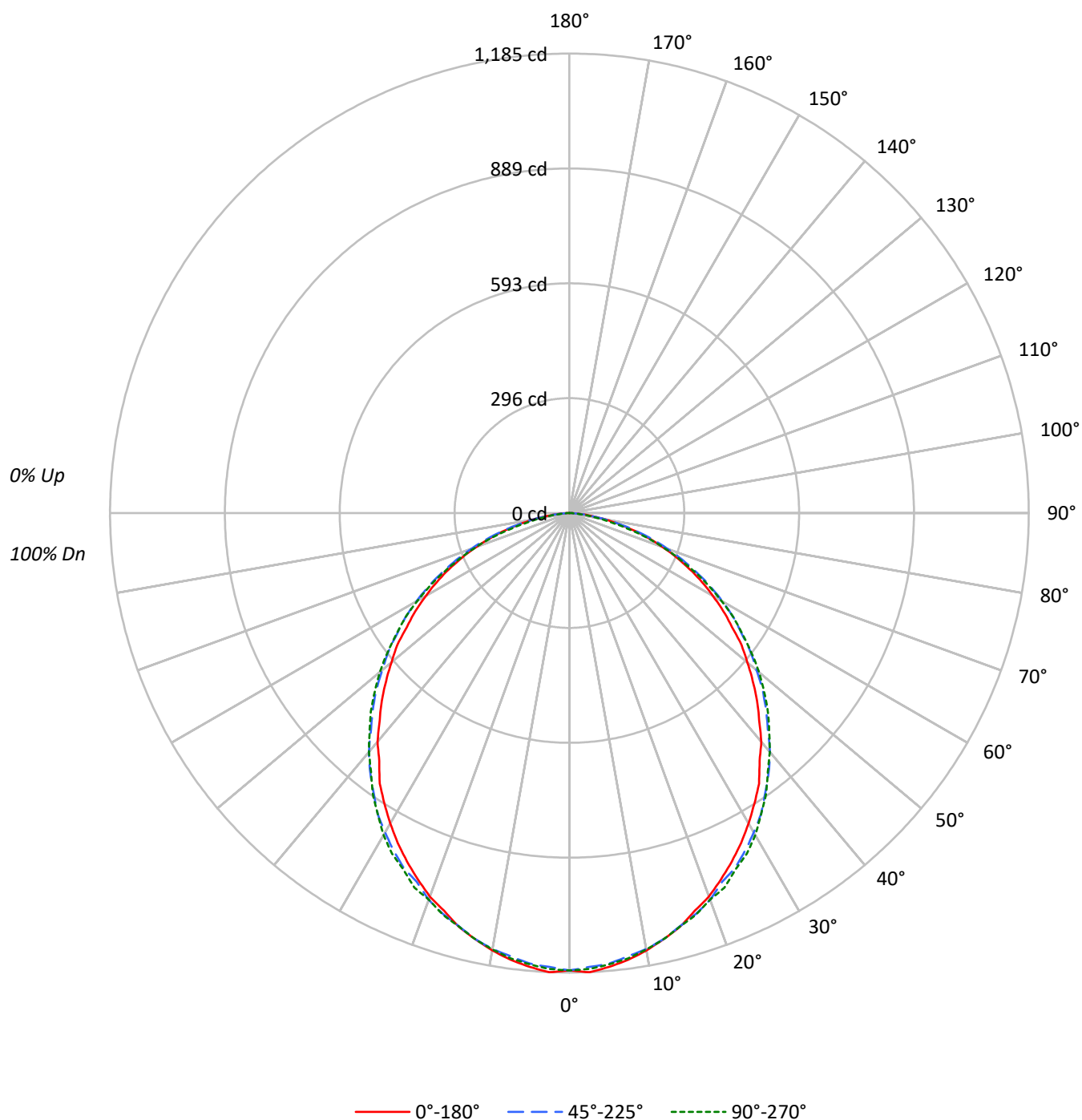
Lumens per Lamp: N/A
Luminaire Lumens: 3029.5 lumens
Efficiency: N/A
Efficacy: 129.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	3174	3174	3174
5°	3174	3151	3156
10°	3130	3119	3122
15°	3076	3072	3074
20°	3014	3040	3038
25°	2943	3000	3010
30°	2871	2956	2980
35°	2801	2892	2904
40°	2705	2827	2825
45°	2606	2729	2756
50°	2508	2637	2673
55°	2402	2544	2560
60°	2301	2454	2436
65°	2180	2304	2259
70°	2009	2116	2020
75°	1777	1851	1616
80°	1429	1449	1130
85°	936	895	658



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.9	3.7
10°-20°	311.7	10.3
20°-30°	464.1	15.3
30°-40°	546.3	18.0
40°-50°	547.7	18.1
50°-60°	480.3	15.9
60°-70°	351.2	11.6
70°-80°	181.0	6.0
80°-90°	36.3	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°	886.7	29.3
0°-40°	1433.0	47.3
0°-60°	2461.0	81.2
0°-90°	3029.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3029.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1180	1180	1180	1180	1180	
5°	1175	1167	1167	1174	1168	111
15°	1104	1106	1103	1110	1103	311
25°	991	996	1010	1025	1014	457
35°	852	856	880	890	884	531
45°	685	688	717	726	724	528
55°	512	524	542	550	546	460
65°	342	350	362	360	355	339
75°	171	172	178	166	155	181
85°	30	30	29	23	21	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1179.5	1179.5	1179.5	1179.5	1179.5
2.5°	1185.3	1179.5	1171.7	1178.2	1176.9
5°	1174.9	1167.2	1166.6	1174.3	1168.5
7.5°	1162.0	1160.8	1153.0	1161.4	1158.2
10°	1145.3	1144.0	1141.4	1147.2	1142.7
12.5°	1125.3	1124.0	1125.3	1128.5	1125.3
15°	1104.0	1105.9	1102.7	1109.8	1103.4
17.5°	1075.6	1077.6	1084.0	1086.6	1085.9
20°	1052.4	1053.7	1061.4	1071.8	1060.8
22.5°	1022.1	1025.3	1029.2	1047.9	1045.3
25°	991.2	995.7	1010.5	1024.7	1013.7
27.5°	958.9	963.4	981.5	991.8	990.5
30°	924.1	928.6	951.2	965.4	958.9
32.5°	888.0	895.7	920.2	932.5	920.2
35°	852.5	856.4	880.2	889.9	884.1
37.5°	805.4	820.3	844.1	850.6	840.3
40°	770.0	770.6	804.8	804.8	804.1
42.5°	724.2	734.5	757.1	769.3	762.9
45°	684.8	688.1	717.1	726.1	724.2
47.5°	641.6	654.5	675.8	686.1	681.0
50°	599.1	608.1	630.0	643.6	638.4
52.5°	559.7	566.8	589.4	597.1	592.0
55°	512.0	523.6	542.3	550.1	545.6
57.5°	470.7	479.1	502.3	504.9	502.3
60°	427.5	437.2	455.9	457.9	452.7
62.5°	386.3	392.7	409.5	410.1	404.3
65°	342.4	350.2	361.8	360.5	354.7
67.5°	299.2	304.4	315.3	310.8	304.4
70°	255.4	259.9	268.9	262.5	256.7
72.5°	212.8	216.0	223.8	214.1	207.0
75°	170.9	172.2	178.0	165.7	155.4
77.5°	129.6	130.9	134.1	121.9	110.3
80°	92.2	92.2	93.5	80.6	72.9
82.5°	58.0	58.0	57.4	47.7	43.2
85°	30.3	29.7	29.0	23.2	21.3
87.5°	11.0	11.0	9.0	8.4	9.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)