

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: P485962

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-4LO-20-120-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: P485962
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-24-2-INS-A125-LD4-4LO-20-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

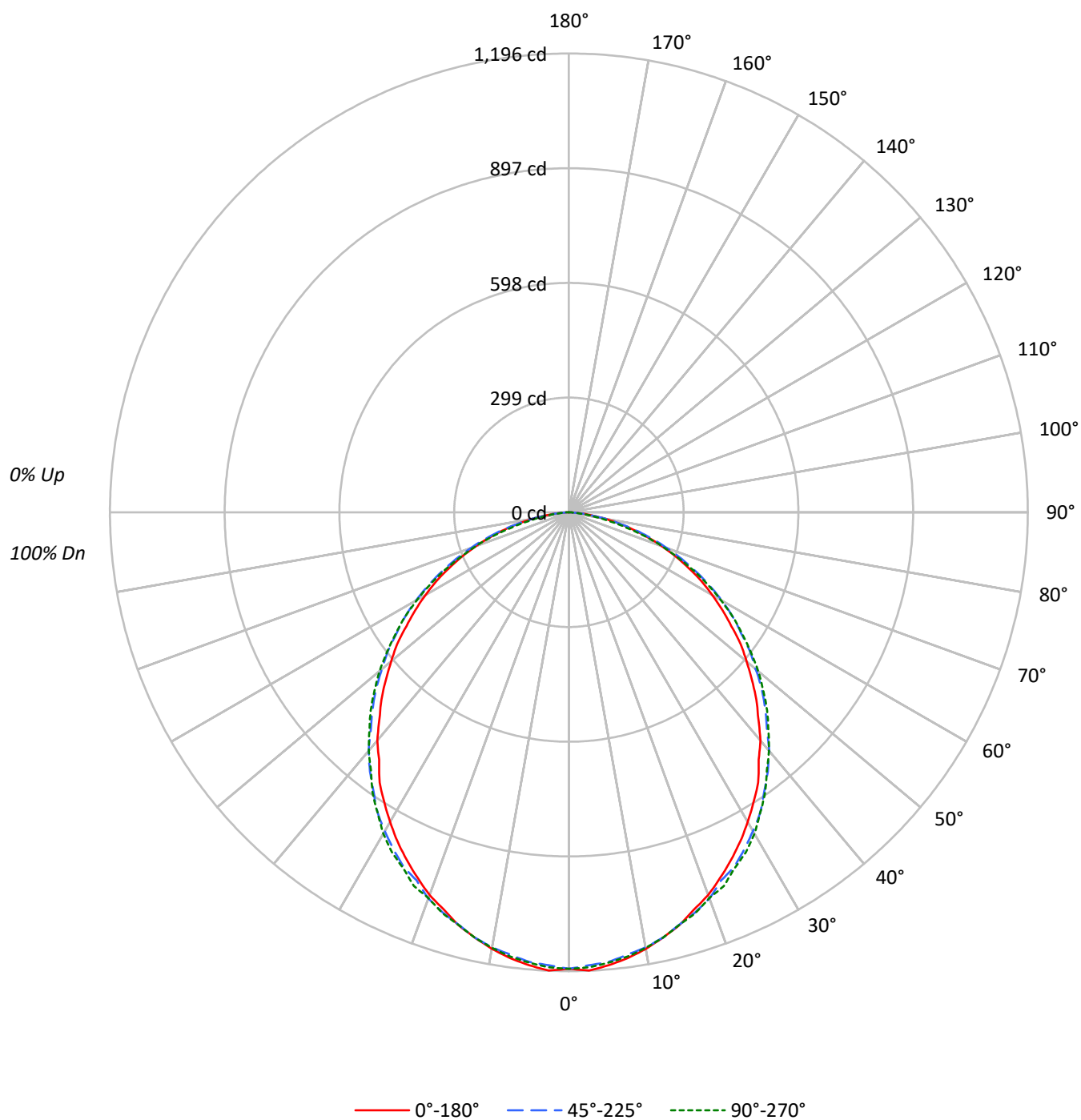
Lumens per Lamp: N/A
Luminaire Lumens: 3055.8 lumens
Efficiency: N/A
Efficacy: 65.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 46.8
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				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	105	101	97	107	102	99	95	98	95	92		94	92	90		91
2	100	92	85	79	97	90	84	79	86	81	77		83	79	75		80
3	91	81	73	66	89	79	72	66	76	70	65		73	68	64		71
4	83	72	63	57	81	70	62	56	68	61	55		66	59	55		63
5	77	64	55	49	75	63	55	49	61	54	48		59	53	48		57
6	71	58	49	43	69	57	49	43	55	48	42		53	47	42		52
7	66	53	44	38	64	52	44	38	50	43	37		49	42	37		47
8	61	48	40	34	60	47	39	34	46	39	34		45	38	33		44
9	57	44	36	31	56	44	36	30	42	35	30		41	35	30		40
10	54	41	33	28	53	40	33	28	39	32	28		38	32	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3201	3201	3201
5°	3201	3179	3184
10°	3157	3146	3149
15°	3102	3099	3100
20°	3040	3066	3064
25°	2969	3026	3036
30°	2896	2981	3005
35°	2825	2917	2930
40°	2728	2852	2849
45°	2629	2753	2780
50°	2530	2660	2696
55°	2423	2566	2582
60°	2321	2475	2457
65°	2199	2323	2278
70°	2027	2134	2037
75°	1792	1866	1630
80°	1441	1461	1139
85°	945	905	664



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.8	3.7
10°-20°	314.4	10.3
20°-30°	468.1	15.3
30°-40°	551.0	18.0
40°-50°	552.5	18.1
50°-60°	484.5	15.9
60°-70°	354.2	11.6
70°-80°	182.6	6.0
80°-90°	36.6	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°	894.4	29.3
0°-40°	1445.4	47.3
0°-60°	2482.3	81.2
0°-90°	3055.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3055.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1190	1190	1190	1190	1190	
5°	1185	1177	1177	1184	1179	112
15°	1114	1116	1112	1119	1113	313
25°	1000	1004	1019	1034	1022	461
35°	860	864	888	898	892	536
45°	691	694	723	732	730	532
55°	516	528	547	555	550	464
65°	345	353	365	364	358	342
75°	172	174	180	167	157	183
85°	31	30	29	23	22	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1189.7	1189.7	1189.7	1189.7	1189.7
2.5°	1195.5	1189.7	1181.9	1188.4	1187.1
5°	1185.1	1177.3	1176.7	1184.5	1178.6
7.5°	1172.1	1170.8	1163.0	1171.5	1168.2
10°	1155.2	1153.9	1151.3	1157.2	1152.6
12.5°	1135.1	1133.8	1135.1	1138.3	1135.1
15°	1113.6	1115.5	1112.3	1119.4	1112.9
17.5°	1085.0	1086.9	1093.4	1096.0	1095.4
20°	1061.6	1062.9	1070.7	1081.1	1070.0
22.5°	1031.0	1034.2	1038.1	1057.0	1054.4
25°	999.8	1004.3	1019.3	1033.6	1022.5
27.5°	967.2	971.8	990.0	1000.4	999.1
30°	932.1	936.7	959.4	973.7	967.2
32.5°	895.7	903.5	928.2	940.6	928.2
35°	859.9	863.8	887.9	897.6	891.8
37.5°	812.4	827.4	851.5	858.0	847.5
40°	776.6	777.3	811.8	811.8	811.1
42.5°	730.5	740.9	763.6	776.0	769.5
45°	690.8	694.0	723.3	732.4	730.5
47.5°	647.2	660.2	681.7	692.1	686.9
50°	604.3	613.4	635.5	649.2	644.0
52.5°	564.6	571.8	594.5	602.3	597.1
55°	516.5	528.2	547.0	554.8	550.3
57.5°	474.8	483.3	506.7	509.3	506.7
60°	431.3	441.0	459.9	461.8	456.6
62.5°	389.6	396.1	413.0	413.7	407.8
65°	345.4	353.2	364.9	363.6	357.8
67.5°	301.8	307.0	318.1	313.5	307.0
70°	257.6	262.1	271.2	264.7	258.9
72.5°	214.7	217.9	225.7	216.0	208.8
75°	172.4	173.7	179.5	167.2	156.8
77.5°	130.7	132.0	135.3	122.9	111.2
80°	93.0	93.0	94.3	81.3	73.5
82.5°	58.5	58.5	57.9	48.1	43.6
85°	30.6	29.9	29.3	23.4	21.5
87.5°	11.1	11.1	9.1	8.5	9.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)