

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: P485910

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-2STD-40-120-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: P485910
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-LD4-2STD-40-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

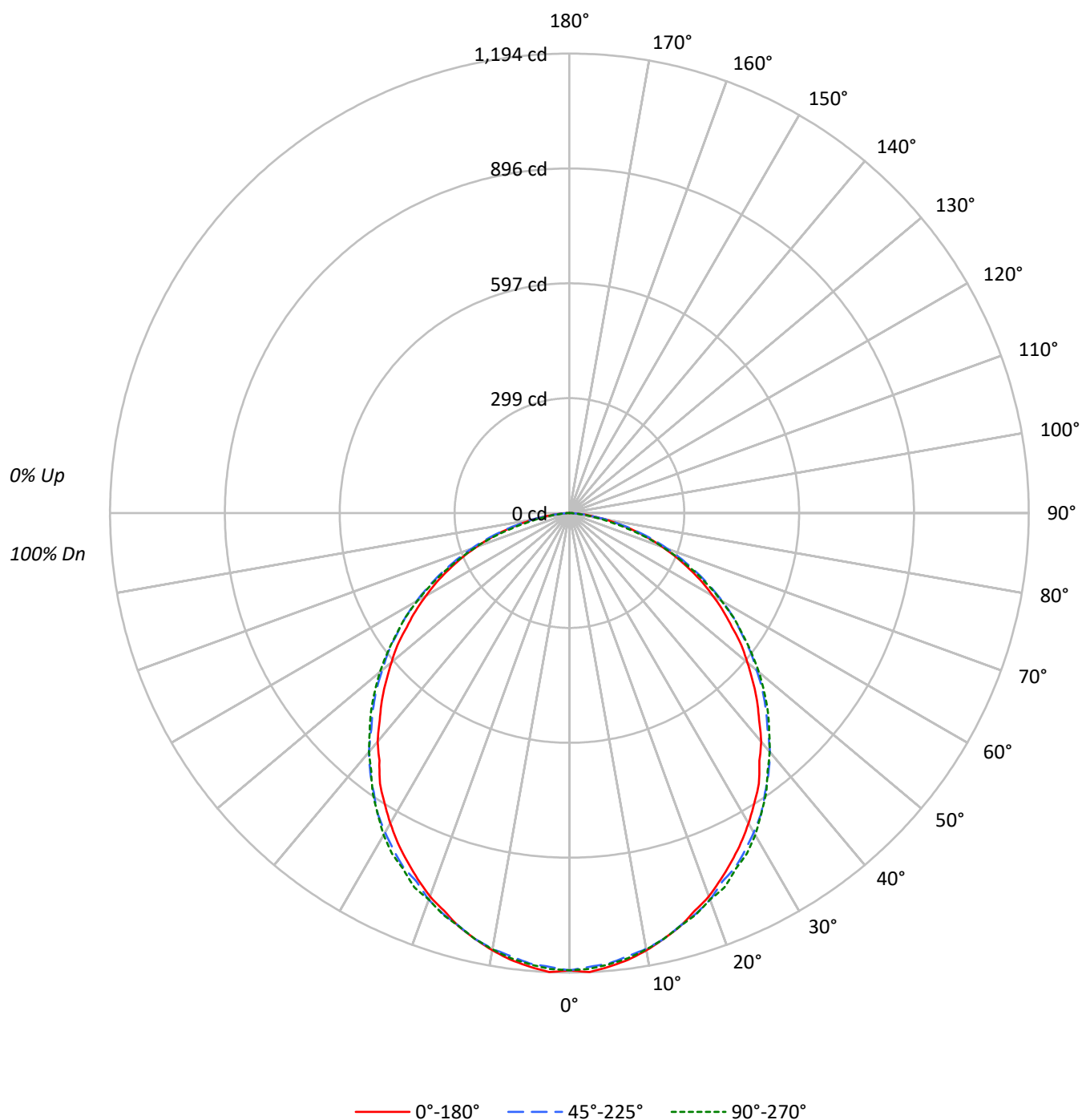
Lumens per Lamp: N/A
Luminaire Lumens: 3051.7 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	3197	3197	3197
5°	3197	3174	3180
10°	3152	3142	3145
15°	3098	3095	3096
20°	3036	3062	3060
25°	2964	3022	3032
30°	2893	2977	3001
35°	2821	2913	2926
40°	2725	2848	2845
45°	2625	2749	2776
50°	2527	2657	2692
55°	2420	2563	2578
60°	2318	2472	2454
65°	2196	2320	2275
70°	2024	2131	2034
75°	1789	1864	1628
80°	1440	1460	1137
85°	942	902	661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.7	3.7
10°-20°	314.0	10.3
20°-30°	467.5	15.3
30°-40°	550.3	18.0
40°-50°	551.7	18.1
50°-60°	483.8	15.9
60°-70°	353.8	11.6
70°-80°	182.3	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°	893.2	29.3
0°-40°	1443.5	47.3
0°-60°	2479.0	81.2
0°-90°	3051.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3051.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1188	1188	1188	1188	1188	
5°	1184	1176	1175	1183	1177	112
15°	1112	1114	1111	1118	1111	313
25°	998	1003	1018	1032	1021	460
35°	859	863	887	896	891	535
45°	690	693	722	731	730	532
55°	516	528	546	554	550	463
65°	345	353	364	363	357	341
75°	172	173	179	167	157	182
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°	1188.1	1188.1	1188.1	1188.1	1188.1
2.5°	1193.9	1188.1	1180.3	1186.8	1185.5
5°	1183.5	1175.8	1175.1	1182.9	1177.1
7.5°	1170.6	1169.3	1161.5	1169.9	1166.7
10°	1153.7	1152.4	1149.8	1155.6	1151.1
12.5°	1133.5	1132.2	1133.5	1136.8	1133.5
15°	1112.1	1114.0	1110.8	1117.9	1111.4
17.5°	1083.5	1085.5	1092.0	1094.6	1093.9
20°	1060.1	1061.4	1069.2	1079.6	1068.6
22.5°	1029.6	1032.8	1036.7	1055.6	1053.0
25°	998.4	1003.0	1017.9	1032.2	1021.2
27.5°	965.9	970.5	988.7	999.1	997.8
30°	930.9	935.4	958.1	972.4	965.9
32.5°	894.5	902.3	927.0	939.3	927.0
35°	858.8	862.7	886.7	896.4	890.6
37.5°	811.3	826.3	850.3	856.8	846.4
40°	775.6	776.3	810.7	810.7	810.0
42.5°	729.5	739.9	762.6	775.0	768.5
45°	689.9	693.1	722.3	731.4	729.5
47.5°	646.3	659.3	680.8	691.2	686.0
50°	603.5	612.6	634.6	648.3	643.1
52.5°	563.8	571.0	593.7	601.5	596.3
55°	515.8	527.5	546.3	554.1	549.6
57.5°	474.2	482.6	506.0	508.6	506.0
60°	430.7	440.4	459.3	461.2	456.0
62.5°	389.1	395.6	412.5	413.1	407.3
65°	344.9	352.7	364.4	363.1	357.3
67.5°	301.4	306.6	317.6	313.1	306.6
70°	257.2	261.8	270.9	264.4	258.5
72.5°	214.4	217.6	225.4	215.7	208.5
75°	172.1	173.4	179.3	166.9	156.6
77.5°	130.6	131.9	135.1	122.8	111.1
80°	92.9	92.9	94.2	81.2	73.4
82.5°	58.5	58.5	57.8	48.1	43.5
85°	30.5	29.9	29.2	23.4	21.4
87.5°	11.0	11.0	9.1	8.4	9.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)