

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: P485990

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-5HI-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: P485990
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-LD4-5HI-30-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

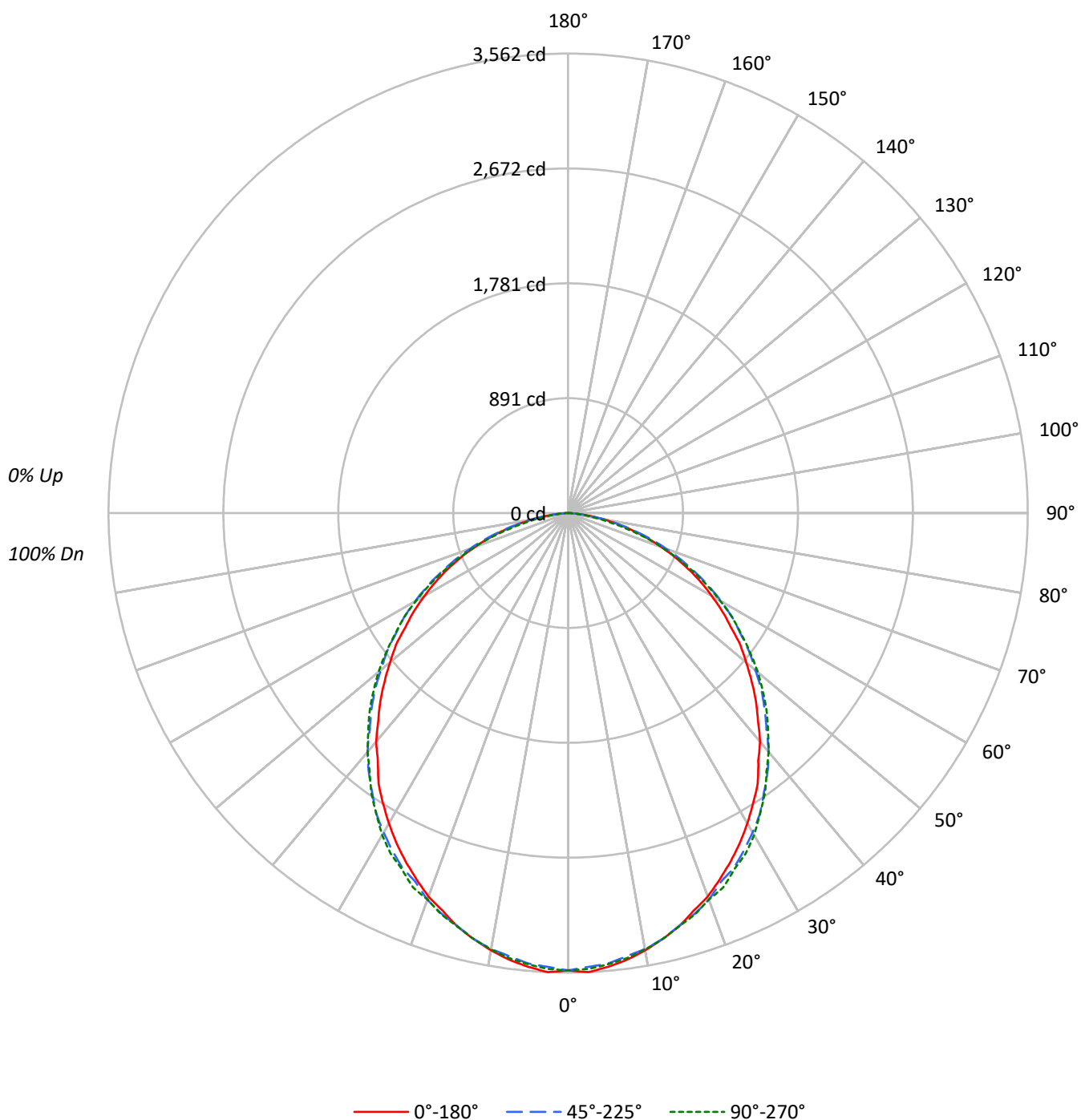
Lumens per Lamp: N/A
Luminaire Lumens: 9105.3 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 110
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°	9539	9539	9539
5°	9539	9471	9487
10°	9406	9374	9384
15°	9244	9233	9239
20°	9058	9136	9130
25°	8845	9018	9046
30°	8630	8883	8955
35°	8417	8691	8729
40°	8129	8497	8490
45°	7833	8202	8283
50°	7538	7927	8033
55°	7220	7647	7693
60°	6916	7375	7323
65°	6553	6923	6788
70°	6039	6359	6069
75°	5340	5561	4857
80°	4296	4355	3394
85°	2813	2692	1976



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.2	3.7
10°-20°	936.9	10.3
20°-30°	1394.9	15.3
30°-40°	1641.9	18.0
40°-50°	1646.2	18.1
50°-60°	1443.6	15.9
60°-70°	1055.6	11.6
70°-80°	544.0	6.0
80°-90°	109.1	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°	2665.0	29.3
0°-40°	4306.9	47.3
0°-60°	7396.6	81.2
0°-90°	9105.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9105.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3545	3545	3545	3545	3545	
5°	3531	3508	3506	3529	3512	334
15°	3318	3324	3314	3336	3316	934
25°	2979	2992	3037	3080	3047	1372
35°	2562	2574	2646	2675	2657	1596
45°	2058	2068	2155	2182	2177	1586
55°	1539	1574	1630	1653	1640	1381
65°	1029	1052	1087	1083	1066	1018
75°	514	518	535	498	467	544
85°	91	89	87	70	64	119
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3544.9	3544.9	3544.9	3544.9	3544.9
2.5°	3562.3	3544.9	3521.6	3541.0	3537.1
5°	3531.3	3508.1	3506.1	3529.4	3511.9
7.5°	3492.6	3488.7	3465.4	3490.6	3480.9
10°	3442.2	3438.3	3430.5	3448.0	3434.4
12.5°	3382.1	3378.2	3382.1	3391.8	3382.1
15°	3318.1	3323.9	3314.3	3335.6	3316.2
17.5°	3232.9	3238.7	3258.0	3265.8	3263.9
20°	3163.1	3167.0	3190.2	3221.2	3188.3
22.5°	3072.0	3081.7	3093.3	3149.5	3141.8
25°	2979.0	2992.5	3037.1	3079.7	3046.8
27.5°	2882.0	2895.6	2949.9	2980.9	2977.0
30°	2777.4	2791.0	2858.8	2901.4	2882.0
32.5°	2668.8	2692.1	2765.8	2802.6	2765.8
35°	2562.2	2573.9	2645.6	2674.7	2657.2
37.5°	2420.8	2465.3	2537.1	2556.4	2525.4
40°	2314.2	2316.1	2418.8	2418.8	2416.9
42.5°	2176.6	2207.6	2275.4	2312.2	2292.8
45°	2058.3	2068.0	2155.2	2182.4	2176.6
47.5°	1928.5	1967.2	2031.2	2062.2	2046.7
50°	1800.6	1827.7	1893.6	1934.3	1918.8
52.5°	1682.3	1703.6	1771.5	1794.7	1779.2
55°	1538.9	1573.8	1630.0	1653.3	1639.7
57.5°	1414.9	1440.1	1509.8	1517.6	1509.8
60°	1285.0	1314.1	1370.3	1376.1	1360.6
62.5°	1161.0	1180.3	1230.7	1232.7	1215.2
65°	1029.2	1052.4	1087.3	1083.4	1066.0
67.5°	899.3	914.8	947.8	934.2	914.8
70°	767.5	781.1	808.2	788.8	771.4
72.5°	639.6	649.3	672.5	643.5	622.1
75°	513.6	517.5	534.9	498.1	467.1
77.5°	389.6	393.4	403.1	366.3	331.4
80°	277.2	277.2	281.0	242.3	219.0
82.5°	174.4	174.4	172.5	143.4	129.9
85°	91.1	89.2	87.2	69.8	64.0
87.5°	32.9	32.9	27.1	25.2	27.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)