

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: P485959

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-4HI-40-120-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: P485959
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-LD4-4HI-40-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

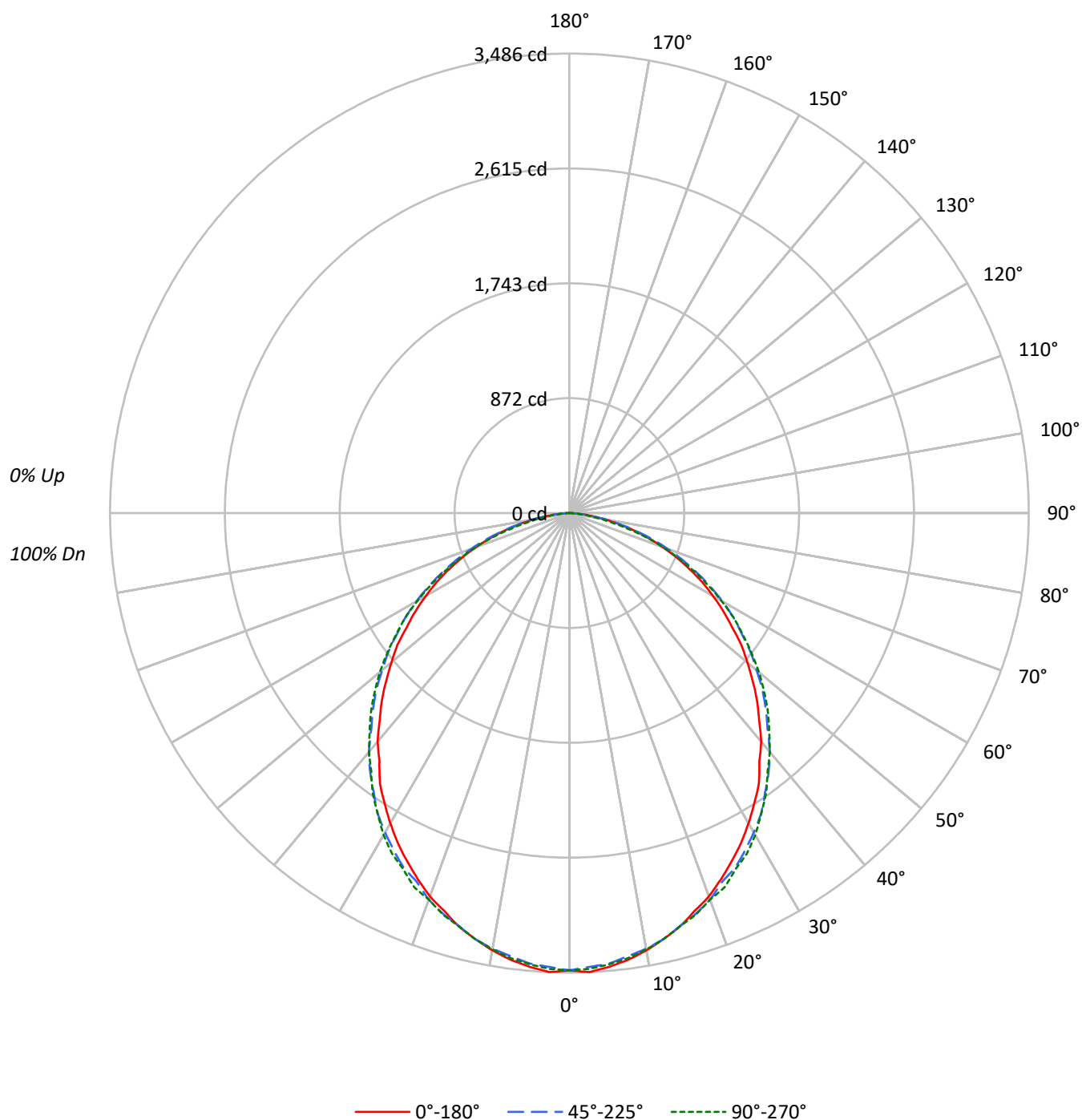
Lumens per Lamp: N/A
Luminaire Lumens: 8909.9 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 88
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°	9334	9334	9334
5°	9334	9268	9283
10°	9204	9173	9183
15°	9046	9035	9040
20°	8864	8940	8934
25°	8655	8824	8852
30°	8445	8692	8763
35°	8237	8504	8542
40°	7955	8315	8308
45°	7665	8026	8105
50°	7376	7757	7860
55°	7065	7483	7528
60°	6767	7217	7166
65°	6413	6775	6642
70°	5909	6223	5939
75°	5226	5443	4753
80°	4203	4262	3321
85°	2751	2634	1933



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.0	3.7
10°-20°	916.8	10.3
20°-30°	1364.9	15.3
30°-40°	1606.6	18.0
40°-50°	1610.8	18.1
50°-60°	1412.6	15.9
60°-70°	1032.9	11.6
70°-80°	532.3	6.0
80°-90°	106.8	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°	2607.8	29.3
0°-40°	4214.4	47.3
0°-60°	7237.8	81.2
0°-90°	8909.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8909.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3469	3469	3469	3469	3469	
5°	3456	3433	3431	3454	3437	327
15°	3247	3253	3243	3264	3245	914
25°	2915	2928	2972	3014	2981	1343
35°	2507	2519	2589	2617	2600	1561
45°	2014	2024	2109	2136	2130	1552
55°	1506	1540	1595	1618	1604	1352
65°	1007	1030	1064	1060	1043	996
75°	503	506	524	487	457	533
85°	89	87	85	68	63	116
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3468.8	3468.8	3468.8	3468.8	3468.8
2.5°	3485.9	3468.8	3446.1	3465.0	3461.2
5°	3455.5	3432.8	3430.9	3453.7	3436.6
7.5°	3417.6	3413.8	3391.1	3415.7	3406.2
10°	3368.3	3364.5	3356.9	3374.0	3360.7
12.5°	3309.5	3305.7	3309.5	3319.0	3309.5
15°	3246.9	3252.6	3243.1	3264.0	3245.0
17.5°	3163.5	3169.2	3188.1	3195.7	3193.8
20°	3095.2	3099.0	3121.8	3152.1	3119.9
22.5°	3006.1	3015.5	3026.9	3081.9	3074.3
25°	2915.0	2928.3	2971.9	3013.6	2981.4
27.5°	2820.2	2833.5	2886.6	2916.9	2913.1
30°	2717.8	2731.1	2797.4	2839.2	2820.2
32.5°	2611.6	2634.3	2706.4	2742.4	2706.4
35°	2507.3	2518.6	2588.8	2617.3	2600.2
37.5°	2368.8	2412.4	2482.6	2501.6	2471.2
40°	2264.5	2266.4	2366.9	2366.9	2365.0
42.5°	2129.8	2160.2	2226.6	2262.6	2243.6
45°	2014.2	2023.6	2109.0	2135.5	2129.8
47.5°	1887.1	1925.0	1987.6	2017.9	2002.8
50°	1761.9	1788.5	1852.9	1892.8	1877.6
52.5°	1646.2	1667.1	1733.5	1756.2	1741.0
55°	1505.9	1540.0	1595.0	1617.8	1604.5
57.5°	1384.5	1409.2	1477.4	1485.0	1477.4
60°	1257.4	1285.9	1340.9	1346.6	1331.4
62.5°	1136.0	1155.0	1204.3	1206.2	1189.1
65°	1007.1	1029.8	1064.0	1060.2	1043.1
67.5°	880.0	895.2	927.4	914.1	895.2
70°	751.0	764.3	790.9	771.9	754.8
72.5°	625.9	635.4	658.1	629.7	608.8
75°	502.6	506.4	523.5	487.4	457.1
77.5°	381.2	385.0	394.5	358.5	324.3
80°	271.2	271.2	275.0	237.1	214.3
82.5°	170.7	170.7	168.8	140.3	127.1
85°	89.1	87.2	85.3	68.3	62.6
87.5°	32.2	32.2	26.6	24.7	26.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)