

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: P487347

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-6STD-30-120-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: P487347
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-24-4-INS-A125-LD4-6STD-30-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

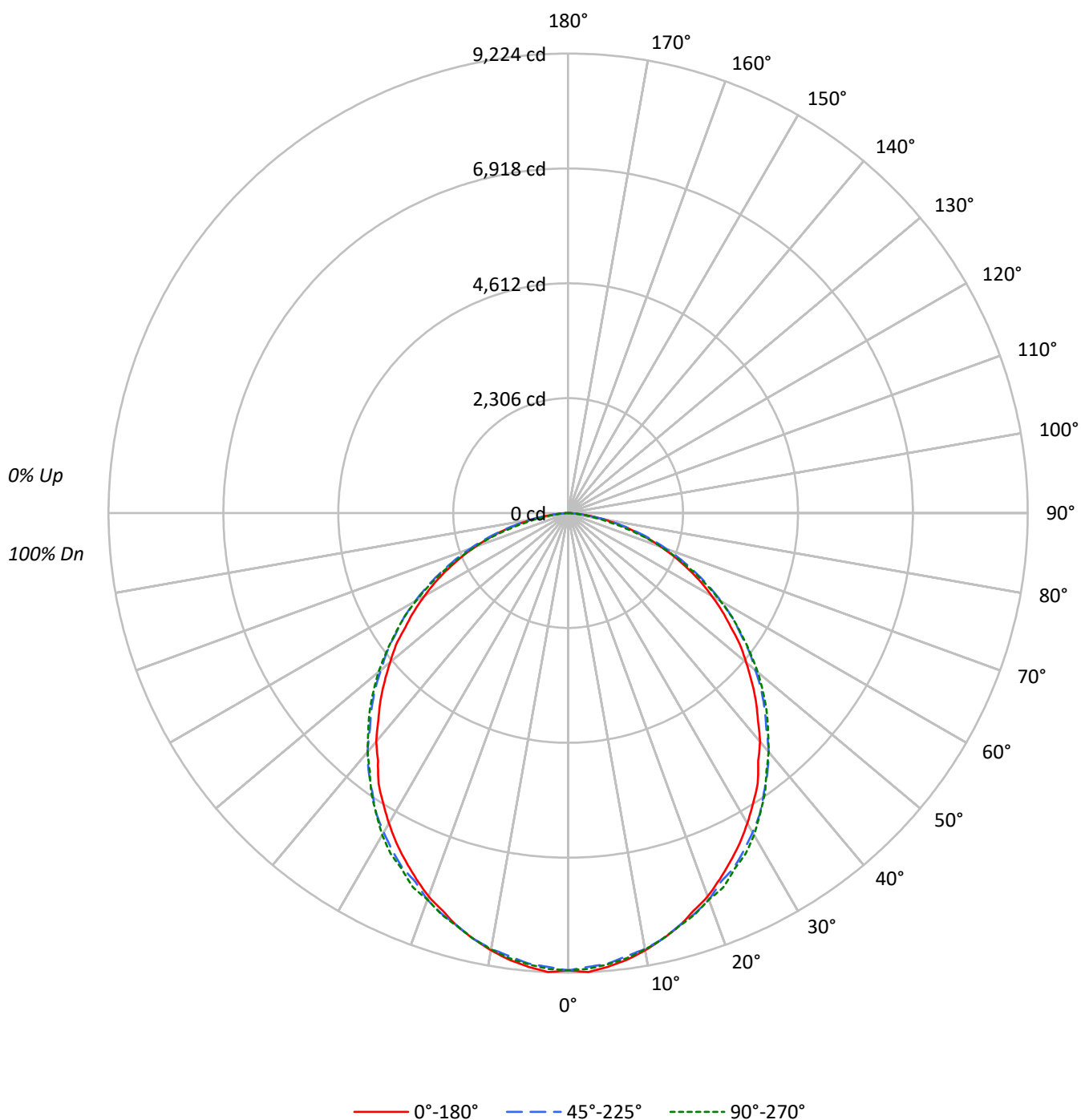
Lumens per Lamp: N/A
Luminaire Lumens: 23576.1 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 199.8
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					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°	12350	12350	12350
5°	12350	12261	12282
10°	12177	12136	12150
15°	11968	11954	11961
20°	11727	11827	11820
25°	11451	11675	11712
30°	11173	11500	11594
35°	10897	11252	11301
40°	10524	11000	10992
45°	10141	10619	10724
50°	9759	10263	10399
55°	9347	9900	9959
60°	8953	9548	9480
65°	8484	8963	8787
70°	7818	8233	7857
75°	6914	7201	6287
80°	5560	5638	4394
85°	3642	3486	2556



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	862.7	3.7
10°-20°	2425.9	10.3
20°-30°	3611.7	15.3
30°-40°	4251.2	18.0
40°-50°	4262.4	18.1
50°-60°	3737.8	15.9
60°-70°	2733.1	11.6
70°-80°	1408.6	6.0
80°-90°	282.6	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°	6900.4	29.3
0°-40°	11151.6	47.3
0°-60°	19151.8	81.2
0°-90°	23576.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23576.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9179	9179	9179	9179	9179	
5°	9144	9083	9078	9139	9093	865
15°	8592	8607	8582	8637	8586	2418
25°	7713	7748	7864	7974	7889	3553
35°	6634	6664	6850	6925	6880	4132
45°	5330	5355	5580	5651	5636	4107
55°	3985	4075	4220	4281	4246	3577
65°	2665	2725	2815	2805	2760	2636
75°	1330	1340	1385	1290	1209	1409
85°	236	231	226	181	166	308
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9178.7	9178.7	9178.7	9178.7	9178.7
2.5°	9223.9	9178.7	9118.5	9168.7	9158.6
5°	9143.6	9083.4	9078.3	9138.6	9093.4
7.5°	9043.2	9033.2	8972.9	9038.2	9013.1
10°	8912.7	8902.7	8882.6	8927.8	8892.7
12.5°	8757.2	8747.1	8757.2	8782.2	8757.2
15°	8591.5	8606.6	8581.5	8636.7	8586.5
17.5°	8370.7	8385.8	8436.0	8456.1	8451.0
20°	8190.1	8200.1	8260.3	8340.6	8255.3
22.5°	7954.2	7979.3	8009.4	8154.9	8134.9
25°	7713.3	7748.5	7863.9	7974.3	7889.0
27.5°	7462.4	7497.5	7638.0	7718.3	7708.3
30°	7191.4	7226.5	7402.2	7512.6	7462.4
32.5°	6910.4	6970.6	7161.3	7256.6	7161.3
35°	6634.4	6664.5	6850.2	6925.4	6880.3
37.5°	6268.0	6383.4	6569.1	6619.3	6539.0
40°	5992.0	5997.0	6263.0	6263.0	6258.0
42.5°	5635.7	5716.0	5891.6	5987.0	5936.8
45°	5329.6	5354.7	5580.5	5650.7	5635.7
47.5°	4993.3	5093.7	5259.3	5339.6	5299.5
50°	4662.1	4732.4	4903.0	5008.4	4968.2
52.5°	4356.0	4411.2	4586.8	4647.1	4606.9
55°	3984.6	4075.0	4220.5	4280.7	4245.6
57.5°	3663.5	3728.7	3909.4	3929.4	3909.4
60°	3327.2	3402.5	3548.0	3563.1	3522.9
62.5°	3006.0	3056.2	3186.7	3191.7	3146.6
65°	2664.8	2725.0	2815.3	2805.3	2760.1
67.5°	2328.6	2368.7	2454.0	2418.9	2368.7
70°	1987.3	2022.4	2092.7	2042.5	1997.3
72.5°	1656.1	1681.2	1741.4	1666.1	1610.9
75°	1329.9	1339.9	1385.1	1289.7	1209.4
77.5°	1008.7	1018.7	1043.8	948.5	858.2
80°	717.6	717.6	727.7	627.3	567.1
82.5°	451.7	451.7	446.6	371.4	336.2
85°	235.9	230.8	225.8	180.7	165.6
87.5°	85.3	85.3	70.3	65.2	70.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)