

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: P487274

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-4STD-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: P487274
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-LD4-4STD-30-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

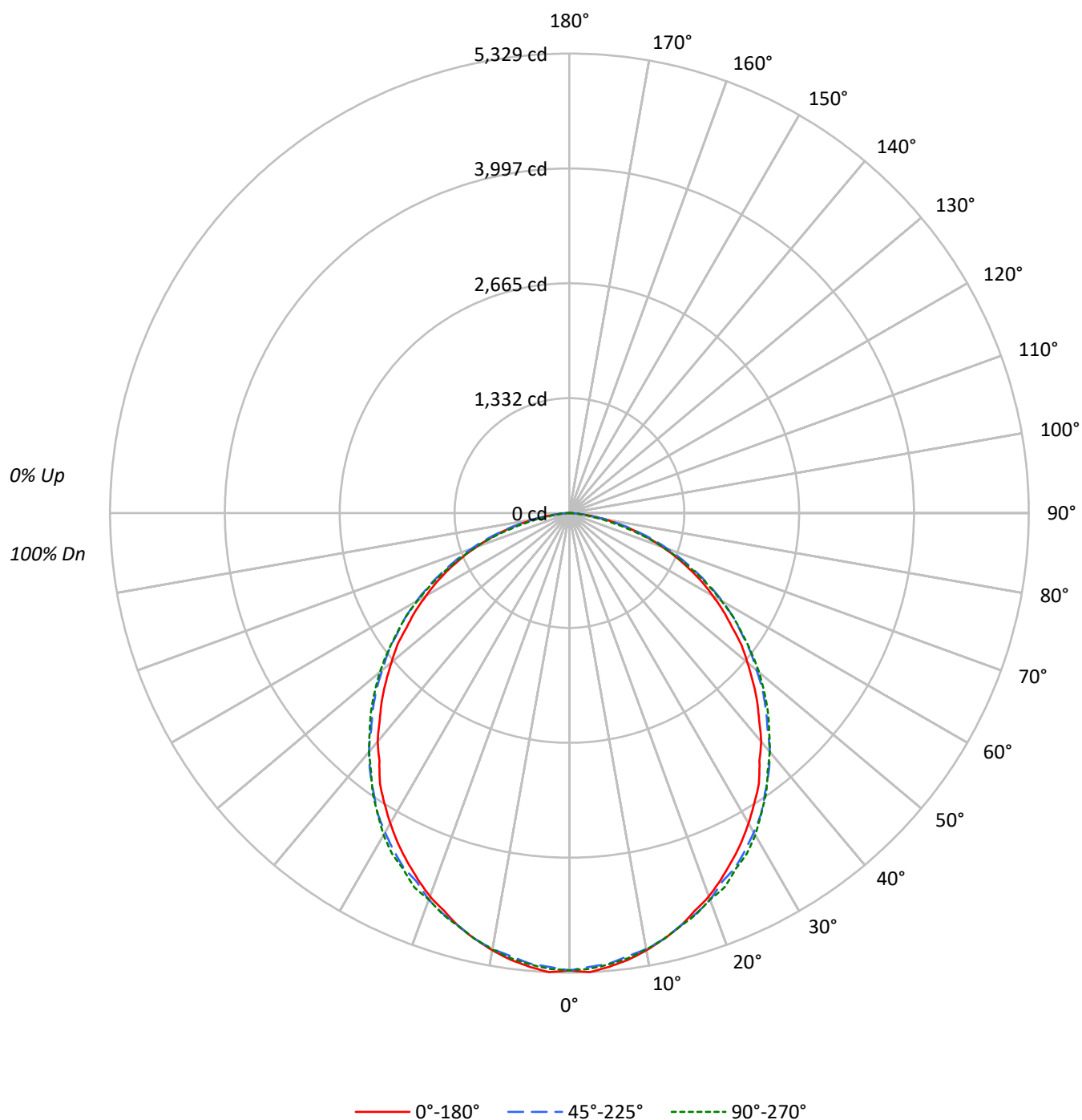
Lumens per Lamp: N/A
Luminaire Lumens: 13621.6 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 133.2
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°	7135	7135	7135
5°	7135	7084	7096
10°	7035	7012	7020
15°	6915	6907	6911
20°	6775	6834	6829
25°	6616	6745	6767
30°	6455	6645	6699
35°	6296	6501	6529
40°	6081	6356	6351
45°	5859	6135	6196
50°	5638	5930	6009
55°	5400	5720	5754
60°	5173	5516	5477
65°	4902	5179	5077
70°	4517	4757	4540
75°	3995	4160	3633
80°	3212	3257	2538
85°	2104	2015	1477



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	498.5	3.7
10°-20°	1401.6	10.3
20°-30°	2086.8	15.3
30°-40°	2456.2	18.0
40°-50°	2462.7	18.1
50°-60°	2159.6	15.9
60°-70°	1579.1	11.6
70°-80°	813.8	6.0
80°-90°	163.3	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°	3986.9	29.3
0°-40°	6443.1	47.3
0°-60°	11065.3	81.2
0°-90°	13621.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13621.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5303	5303	5303	5303	5303	
5°	5283	5248	5245	5280	5254	500
15°	4964	4973	4958	4990	4961	1397
25°	4456	4477	4544	4607	4558	2053
35°	3833	3850	3958	4001	3975	2387
45°	3079	3094	3224	3265	3256	2373
55°	2302	2354	2438	2473	2453	2067
65°	1540	1574	1627	1621	1595	1523
75°	768	774	800	745	699	814
85°	136	133	130	104	96	178
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5303.2	5303.2	5303.2	5303.2	5303.2
2.5°	5329.3	5303.2	5268.4	5297.4	5291.6
5°	5282.9	5248.1	5245.2	5280.0	5253.9
7.5°	5224.9	5219.1	5184.3	5222.0	5207.5
10°	5149.5	5143.7	5132.1	5158.2	5137.9
12.5°	5059.6	5053.8	5059.6	5074.1	5059.6
15°	4964.0	4972.7	4958.2	4990.0	4961.1
17.5°	4836.4	4845.1	4874.1	4885.7	4882.8
20°	4732.0	4737.8	4772.6	4819.0	4769.7
22.5°	4595.7	4610.2	4627.6	4711.7	4700.1
25°	4456.5	4476.8	4543.5	4607.3	4558.0
27.5°	4311.6	4331.9	4413.0	4459.4	4453.6
30°	4155.0	4175.3	4276.8	4340.6	4311.6
32.5°	3992.6	4027.4	4137.6	4192.7	4137.6
35°	3833.1	3850.5	3957.8	4001.3	3975.2
37.5°	3621.5	3688.2	3795.5	3824.4	3778.1
40°	3462.0	3464.9	3618.6	3618.6	3615.7
42.5°	3256.1	3302.5	3404.0	3459.1	3430.1
45°	3079.3	3093.8	3224.2	3264.8	3256.1
47.5°	2885.0	2943.0	3038.7	3085.1	3061.9
50°	2693.6	2734.2	2832.8	2893.7	2870.5
52.5°	2516.8	2548.7	2650.1	2684.9	2661.7
55°	2302.2	2354.4	2438.5	2473.3	2453.0
57.5°	2116.6	2154.3	2258.7	2270.3	2258.7
60°	1922.4	1965.9	2049.9	2058.6	2035.5
62.5°	1736.8	1765.8	1841.2	1844.1	1818.0
65°	1539.6	1574.4	1626.6	1620.8	1594.7
67.5°	1345.4	1368.6	1417.9	1397.6	1368.6
70°	1148.2	1168.5	1209.1	1180.1	1154.0
72.5°	956.8	971.3	1006.1	962.6	930.7
75°	768.4	774.2	800.3	745.2	698.8
77.5°	582.8	588.6	603.1	548.0	495.8
80°	414.6	414.6	420.4	362.4	327.6
82.5°	261.0	261.0	258.1	214.6	194.3
85°	136.3	133.4	130.5	104.4	95.7
87.5°	49.3	49.3	40.6	37.7	40.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)