

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: P487220

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-3HI-50-120-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: P487220
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-LD4-3HI-50-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

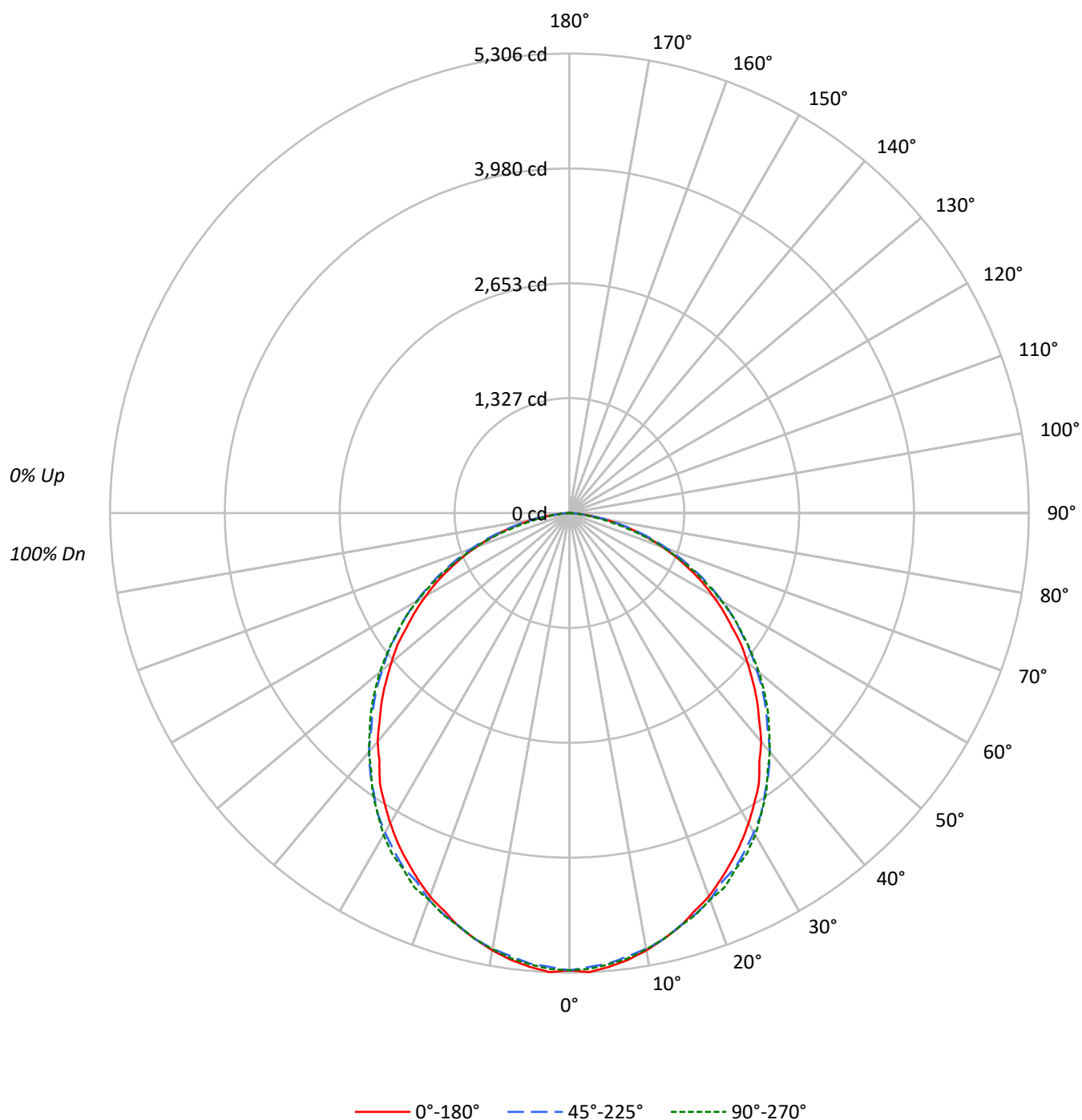
Lumens per Lamp: N/A
Luminaire Lumens: 13561.2 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 132
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°	7104	7104	7104
5°	7104	7053	7065
10°	7004	6981	6988
15°	6884	6876	6880
20°	6745	6803	6799
25°	6587	6715	6737
30°	6427	6615	6669
35°	6268	6472	6501
40°	6054	6327	6323
45°	5833	6108	6168
50°	5613	5903	5982
55°	5377	5695	5729
60°	5150	5492	5453
65°	4880	5156	5055
70°	4497	4735	4520
75°	3977	4142	3617
80°	3199	3243	2528
85°	2095	2005	1471



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	496.3	3.7
10°-20°	1395.4	10.3
20°-30°	2077.5	15.3
30°-40°	2445.3	18.0
40°-50°	2451.8	18.1
50°-60°	2150.0	15.9
60°-70°	1572.1	11.6
70°-80°	810.2	6.0
80°-90°	162.6	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°	3969.2	29.3
0°-40°	6414.5	47.3
0°-60°	11016.3	81.2
0°-90°	13561.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13561.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5280	5280	5280	5280	5280	
5°	5260	5225	5222	5257	5231	498
15°	4942	4951	4936	4968	4939	1391
25°	4437	4457	4523	4587	4538	2044
35°	3816	3834	3940	3984	3958	2377
45°	3066	3080	3210	3250	3242	2363
55°	2292	2344	2428	2462	2442	2057
65°	1533	1567	1619	1614	1588	1516
75°	765	771	797	742	696	811
85°	136	133	130	104	95	177
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5279.7	5279.7	5279.7	5279.7	5279.7
2.5°	5305.7	5279.7	5245.0	5273.9	5268.1
5°	5259.5	5224.8	5221.9	5256.6	5230.6
7.5°	5201.7	5196.0	5161.3	5198.9	5184.4
10°	5126.7	5120.9	5109.4	5135.3	5115.1
12.5°	5037.2	5031.4	5037.2	5051.6	5037.2
15°	4941.9	4950.6	4936.2	4967.9	4939.1
17.5°	4814.9	4823.6	4852.5	4864.0	4861.1
20°	4711.0	4716.8	4751.4	4797.6	4748.5
22.5°	4575.3	4589.8	4607.1	4690.8	4679.3
25°	4436.8	4457.0	4523.4	4586.9	4537.8
27.5°	4292.4	4312.7	4393.5	4439.7	4433.9
30°	4136.6	4156.8	4257.8	4321.3	4292.4
32.5°	3974.9	4009.6	4119.2	4174.1	4119.2
35°	3816.1	3833.5	3940.3	3983.6	3957.6
37.5°	3605.4	3671.8	3778.6	3807.5	3761.3
40°	3446.7	3449.5	3602.5	3602.5	3599.7
42.5°	3241.7	3287.9	3388.9	3443.8	3414.9
45°	3065.6	3080.1	3210.0	3250.4	3241.7
47.5°	2872.2	2929.9	3025.2	3071.4	3048.3
50°	2681.7	2722.1	2820.3	2880.9	2857.8
52.5°	2505.6	2537.4	2638.4	2673.0	2649.9
55°	2292.0	2344.0	2427.7	2462.3	2442.1
57.5°	2107.3	2144.8	2248.7	2260.2	2248.7
60°	1913.8	1957.1	2040.9	2049.5	2026.4
62.5°	1729.1	1758.0	1833.0	1835.9	1809.9
65°	1532.8	1567.4	1619.4	1613.6	1587.7
67.5°	1339.4	1362.5	1411.6	1391.4	1362.5
70°	1143.1	1163.3	1203.7	1174.9	1148.9
72.5°	952.6	967.0	1001.7	958.4	926.6
75°	765.0	770.7	796.7	741.9	695.7
77.5°	580.2	586.0	600.4	545.6	493.6
80°	412.8	412.8	418.6	360.8	326.2
82.5°	259.8	259.8	256.9	213.6	193.4
85°	135.7	132.8	129.9	103.9	95.3
87.5°	49.1	49.1	40.4	37.5	40.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)