

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: P487316

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-5STD-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: P487316
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-LD4-5STD-50-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

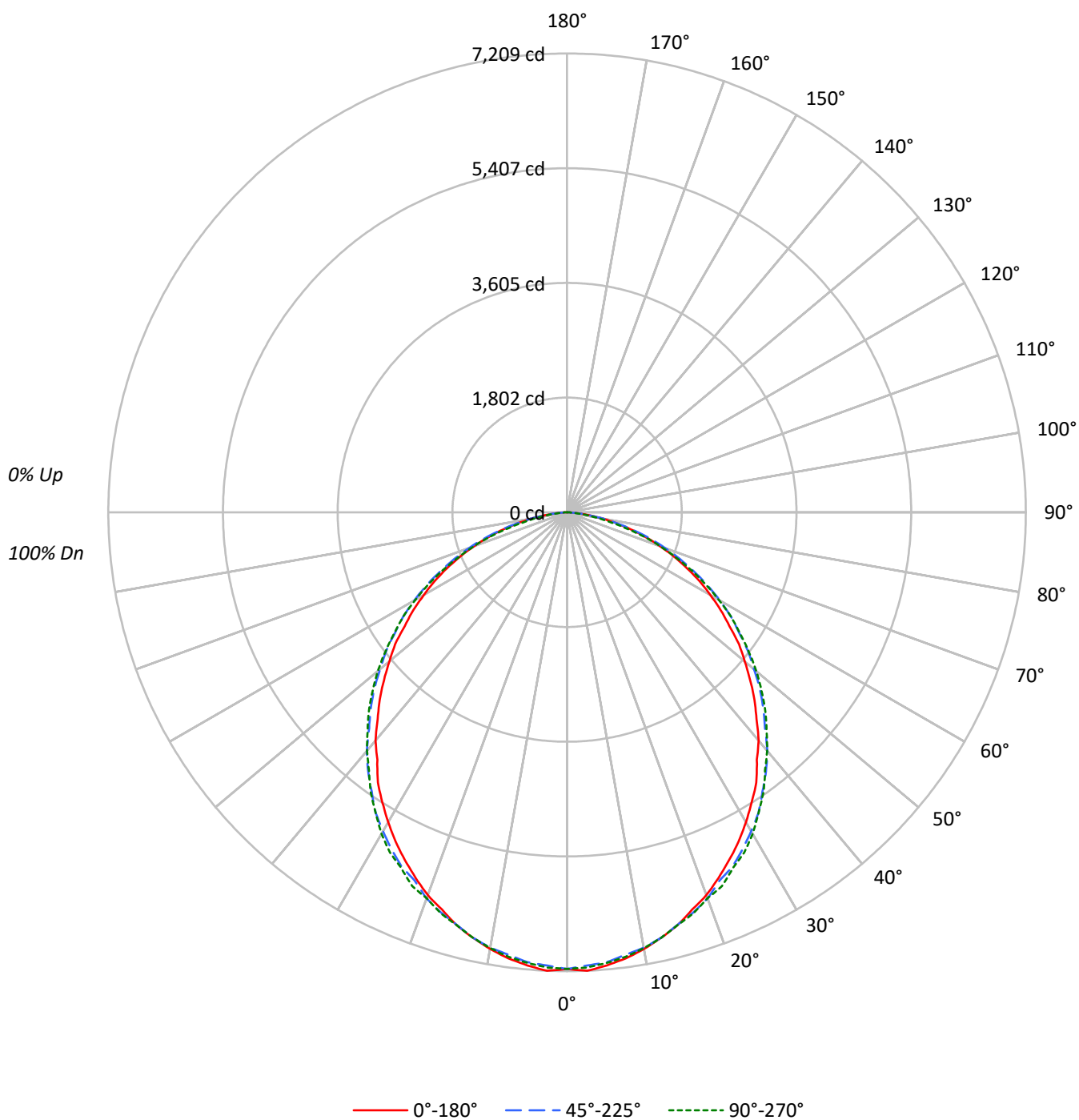
Lumens per Lamp: N/A
Luminaire Lumens: 18426.9 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 166.5
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			0
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			100
1	109	105	101	97	107	102	99	95		98	95	92			94	92	90			85
2	100	92	85	79	97	90	84	79		86	81	77			83	79	75			71
3	91	81	73	66	89	79	72	66		76	70	65			73	68	64			60
4	83	72	63	57	81	70	62	56		68	61	55			66	59	55			52
5	77	64	55	49	75	63	55	49		61	54	48			59	53	48			45
6	71	58	49	43	69	57	49	43		55	48	42			53	47	42			39
7	66	53	44	38	64	52	44	38		50	43	37			49	42	37			35
8	61	48	40	34	60	47	39	34		46	39	34			45	38	33			31
9	57	44	36	31	56	44	36	30		42	35	30			41	35	30			28
10	54	41	33	28	53	40	33	28		39	32	28			38	32	27			26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9653	9653	9653
5°	9652	9584	9599
10°	9517	9485	9496
15°	9354	9343	9348
20°	9166	9244	9239
25°	8950	9125	9154
30°	8733	8989	9062
35°	8517	8794	8833
40°	8226	8598	8591
45°	7926	8299	8381
50°	7627	8022	8128
55°	7306	7738	7784
60°	6998	7462	7410
65°	6631	7005	6868
70°	6111	6434	6141
75°	5403	5628	4914
80°	4346	4406	3434
85°	2847	2725	1998



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	674.3	3.7
10°-20°	1896.1	10.3
20°-30°	2822.9	15.3
30°-40°	3322.7	18.0
40°-50°	3331.5	18.1
50°-60°	2921.4	15.9
60°-70°	2136.2	11.6
70°-80°	1100.9	6.0
80°-90°	220.9	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°	5393.3	29.3
0°-40°	8716.0	47.3
0°-60°	14968.9	81.2
0°-90°	18426.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18426.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7174	7174	7174	7174	7174	
5°	7146	7100	7096	7143	7107	676
15°	6715	6727	6707	6750	6711	1890
25°	6029	6056	6146	6233	6166	2777
35°	5185	5209	5354	5413	5378	3229
45°	4166	4185	4362	4417	4405	3210
55°	3114	3185	3299	3346	3318	2796
65°	2083	2130	2200	2193	2157	2060
75°	1039	1047	1083	1008	945	1101
85°	184	180	176	141	129	241
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7174.0	7174.0	7174.0	7174.0	7174.0
2.5°	7209.3	7174.0	7126.9	7166.2	7158.3
5°	7146.5	7099.5	7095.6	7142.6	7107.3
7.5°	7068.1	7060.3	7013.2	7064.2	7044.6
10°	6966.1	6958.3	6942.6	6977.9	6950.4
12.5°	6844.5	6836.7	6844.5	6864.1	6844.5
15°	6715.1	6726.9	6707.2	6750.4	6711.2
17.5°	6542.5	6554.3	6593.5	6609.2	6605.3
20°	6401.3	6409.1	6456.2	6519.0	6452.3
22.5°	6216.9	6236.6	6260.1	6373.8	6358.2
25°	6028.7	6056.1	6146.3	6232.6	6166.0
27.5°	5832.6	5860.0	5969.8	6032.6	6024.8
30°	5620.7	5648.2	5785.5	5871.8	5832.6
32.5°	5401.1	5448.2	5597.2	5671.7	5597.2
35°	5185.4	5208.9	5354.0	5412.9	5377.6
37.5°	4899.0	4989.2	5134.4	5173.6	5110.8
40°	4683.3	4687.2	4895.1	4895.1	4891.2
42.5°	4404.8	4467.6	4604.9	4679.4	4640.2
45°	4165.6	4185.2	4361.7	4416.6	4404.8
47.5°	3902.8	3981.2	4110.6	4173.4	4142.0
50°	3643.9	3698.8	3832.2	3914.5	3883.1
52.5°	3404.6	3447.8	3585.0	3632.1	3600.7
55°	3114.4	3185.0	3298.7	3345.8	3318.3
57.5°	2863.3	2914.3	3055.5	3071.2	3055.5
60°	2600.5	2659.4	2773.1	2784.9	2753.5
62.5°	2349.5	2388.7	2490.7	2494.6	2459.3
65°	2082.8	2129.8	2200.4	2192.6	2157.3
67.5°	1820.0	1851.4	1918.0	1890.6	1851.4
70°	1553.3	1580.7	1635.6	1596.4	1561.1
72.5°	1294.4	1314.0	1361.1	1302.2	1259.1
75°	1039.4	1047.3	1082.6	1008.0	945.3
77.5°	788.4	796.2	815.9	741.3	670.7
80°	560.9	560.9	568.7	490.3	443.2
82.5°	353.0	353.0	349.1	290.3	262.8
85°	184.4	180.4	176.5	141.2	129.4
87.5°	66.7	66.7	54.9	51.0	54.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)