

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: P487284

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-5HI-27-120-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: P487284
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-LD4-5HI-27-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

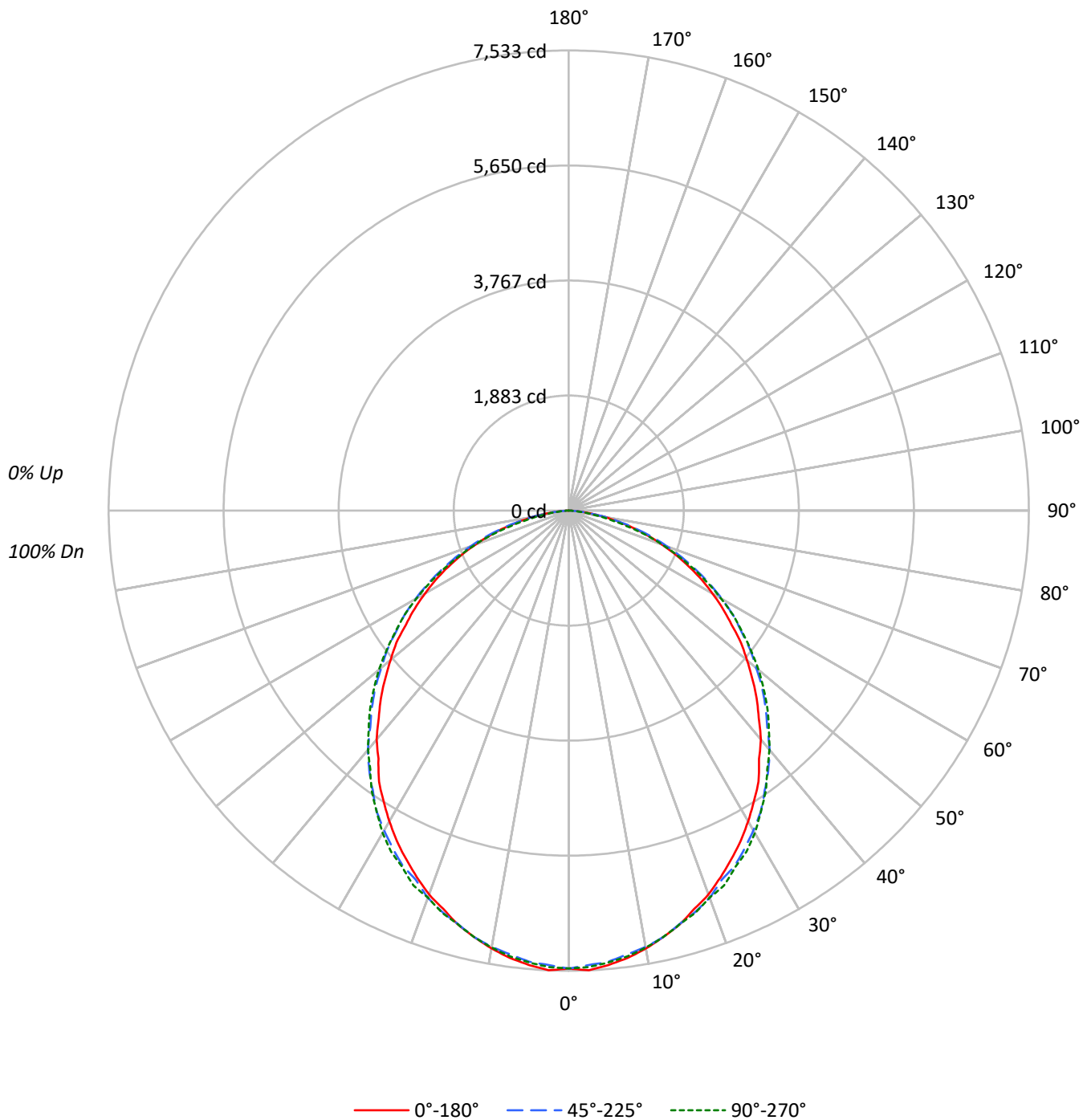
Lumens per Lamp: N/A
Luminaire Lumens: 19253.6 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 220
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				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	105	101	97	107	102	99	95	98	95	92		94	92	90		91
2	100	92	85	79	97	90	84	79	86	81	77		83	79	75		80
3	91	81	73	66	89	79	72	66	76	70	65		73	68	64		71
4	83	72	63	57	81	70	62	56	68	61	55		66	59	55		63
5	77	64	55	49	75	63	55	49	61	54	48		59	53	48		57
6	71	58	49	43	69	57	49	43	55	48	42		53	47	42		52
7	66	53	44	38	64	52	44	38	50	43	37		49	42	37		47
8	61	48	40	34	60	47	39	34	46	39	34		45	38	33		44
9	57	44	36	31	56	44	36	30	42	35	30		41	35	30		40
10	54	41	33	28	53	40	33	28	39	32	28		38	32	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10086	10086	10086
5°	10085	10013	10030
10°	9944	9911	9922
15°	9774	9762	9768
20°	9577	9659	9653
25°	9352	9534	9565
30°	9124	9392	9468
35°	8899	9189	9229
40°	8595	8984	8976
45°	8282	8672	8757
50°	7970	8381	8493
55°	7633	8085	8133
60°	7312	7797	7742
65°	6928	7320	7176
70°	6384	6723	6417
75°	5646	5880	5135
80°	4541	4605	3588
85°	2973	2847	2087



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	704.6	3.7
10°-20°	1981.1	10.3
20°-30°	2949.5	15.3
30°-40°	3471.8	18.0
40°-50°	3480.9	18.1
50°-60°	3052.5	15.9
60°-70°	2232.0	11.6
70°-80°	1150.3	6.0
80°-90°	230.8	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°	5635.3	29.3
0°-40°	9107.0	47.3
0°-60°	15640.4	81.2
0°-90°	19253.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19253.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7496	7496	7496	7496	7496	
5°	7467	7418	7414	7463	7426	707
15°	7016	7029	7008	7053	7012	1975
25°	6299	6328	6422	6512	6443	2902
35°	5418	5443	5594	5656	5619	3374
45°	4352	4373	4557	4615	4602	3354
55°	3254	3328	3447	3496	3467	2921
65°	2176	2225	2299	2291	2254	2153
75°	1086	1094	1131	1053	988	1151
85°	193	188	184	148	135	251
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7495.9	7495.9	7495.9	7495.9	7495.9
2.5°	7532.7	7495.9	7446.7	7487.7	7479.5
5°	7467.2	7418.0	7413.9	7463.1	7426.2
7.5°	7385.2	7377.0	7327.8	7381.1	7360.6
10°	7278.6	7270.4	7254.1	7290.9	7262.3
12.5°	7151.6	7143.4	7151.6	7172.1	7151.6
15°	7016.4	7028.6	7008.2	7053.2	7012.3
17.5°	6836.0	6848.3	6889.3	6905.7	6901.6
20°	6688.5	6696.7	6745.9	6811.4	6741.8
22.5°	6495.9	6516.4	6540.9	6659.8	6643.4
25°	6299.1	6327.8	6422.1	6512.3	6442.6
27.5°	6094.2	6122.9	6237.7	6303.2	6295.0
30°	5872.9	5901.6	6045.0	6135.2	6094.2
32.5°	5643.4	5692.6	5848.3	5926.2	5848.3
35°	5418.0	5442.6	5594.2	5655.7	5618.8
37.5°	5118.8	5213.1	5364.7	5405.7	5340.1
40°	4893.4	4897.5	5114.7	5114.7	5110.6
42.5°	4602.4	4668.0	4811.4	4889.3	4848.3
45°	4352.4	4372.9	4557.4	4614.7	4602.4
47.5°	4077.8	4159.8	4295.1	4360.6	4327.8
50°	3807.4	3864.7	4004.1	4090.1	4057.4
52.5°	3557.4	3602.4	3745.9	3795.1	3762.3
55°	3254.1	3327.8	3446.7	3495.9	3467.2
57.5°	2991.8	3045.1	3192.6	3209.0	3192.6
60°	2717.2	2778.7	2897.5	2909.8	2877.0
62.5°	2454.9	2495.9	2602.4	2606.5	2569.7
65°	2176.2	2225.4	2299.2	2291.0	2254.1
67.5°	1901.6	1934.4	2004.1	1975.4	1934.4
70°	1622.9	1651.6	1709.0	1668.0	1631.1
72.5°	1352.5	1372.9	1422.1	1360.6	1315.6
75°	1086.1	1094.3	1131.1	1053.3	987.7
77.5°	823.8	832.0	852.5	774.6	700.8
80°	586.1	586.1	594.3	512.3	463.1
82.5°	368.9	368.9	364.8	303.3	274.6
85°	192.6	188.5	184.4	147.5	135.2
87.5°	69.7	69.7	57.4	53.3	57.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)