

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: P487262

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-4LO-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: P487262
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-LD4-4LO-30-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

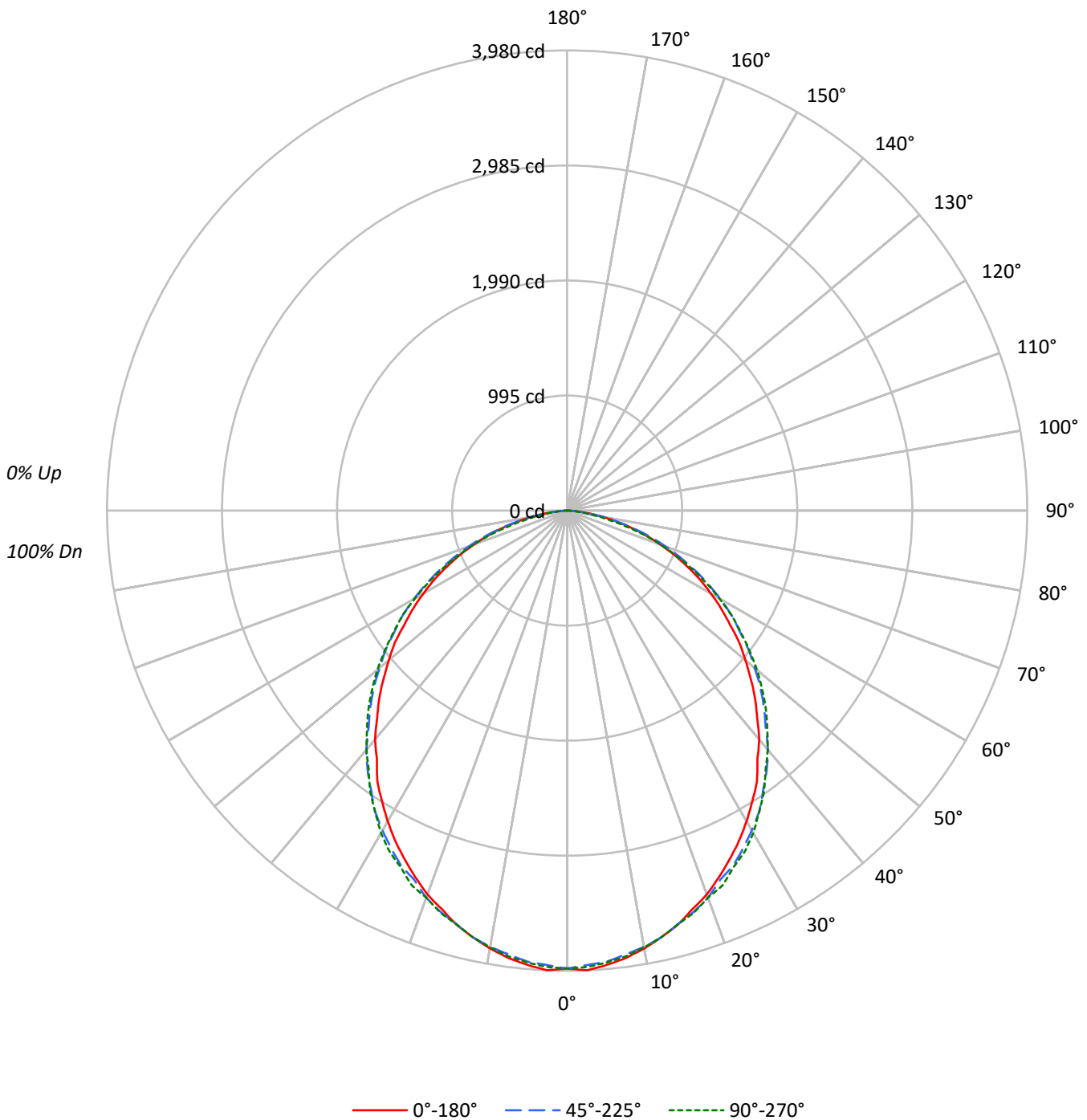
Lumens per Lamp: N/A
Luminaire Lumens: 10171.7 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 93.6
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									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	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	102	102	102	100																												
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85																												
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71																												
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60																												
4	83	72	63	57	81	70	62	56	68	61	55	66	59	55	63	58	54	52																												
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45																												
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39																												
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35																												
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31																												
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28																												
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5328	5328	5328
5°	5328	5290	5299
10°	5254	5236	5242
15°	5163	5157	5160
20°	5059	5103	5100
25°	4940	5037	5053
30°	4820	4962	5002
35°	4701	4854	4876
40°	4541	4746	4742
45°	4375	4581	4627
50°	4210	4428	4487
55°	4033	4271	4297
60°	3863	4119	4090
65°	3660	3867	3791
70°	3373	3552	3390
75°	2983	3107	2713
80°	2399	2432	1896
85°	1572	1504	1104



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.2	3.7
10°-20°	1046.6	10.3
20°-30°	1558.2	15.3
30°-40°	1834.1	18.0
40°-50°	1839.0	18.1
50°-60°	1612.6	15.9
60°-70°	1179.2	11.6
70°-80°	607.7	6.0
80°-90°	121.9	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°	2977.1	29.3
0°-40°	4811.3	47.3
0°-60°	8262.9	81.2
0°-90°	10171.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10171.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3960	3960	3960	3960	3960	
5°	3945	3919	3917	3943	3923	373
15°	3707	3713	3702	3726	3705	1043
25°	3328	3343	3393	3440	3404	1533
35°	2862	2875	2955	2988	2968	1783
45°	2299	2310	2408	2438	2432	1772
55°	1719	1758	1821	1847	1832	1543
65°	1150	1176	1215	1210	1191	1137
75°	574	578	598	556	522	608
85°	102	100	97	78	72	133
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3960.1	3960.1	3960.1	3960.1	3960.1
2.5°	3979.6	3960.1	3934.1	3955.7	3951.4
5°	3944.9	3918.9	3916.8	3942.7	3923.3
7.5°	3901.6	3897.3	3871.3	3899.4	3888.6
10°	3845.3	3841.0	3832.3	3851.8	3836.7
12.5°	3778.2	3773.9	3778.2	3789.0	3778.2
15°	3706.7	3713.2	3702.4	3726.2	3704.6
17.5°	3611.5	3618.0	3639.6	3648.3	3646.1
20°	3533.5	3537.9	3563.8	3598.5	3561.7
22.5°	3431.8	3442.6	3455.6	3518.4	3509.7
25°	3327.8	3343.0	3392.8	3440.4	3403.6
27.5°	3219.6	3234.7	3295.4	3330.0	3325.7
30°	3102.7	3117.8	3193.6	3241.2	3219.6
32.5°	2981.4	3007.4	3089.7	3130.8	3089.7
35°	2862.3	2875.3	2955.4	2987.9	2968.4
37.5°	2704.3	2754.1	2834.2	2855.8	2821.2
40°	2585.2	2587.4	2702.1	2702.1	2699.9
42.5°	2431.5	2466.1	2541.9	2583.0	2561.4
45°	2299.4	2310.2	2407.7	2438.0	2431.5
47.5°	2154.3	2197.6	2269.1	2303.7	2286.4
50°	2011.4	2041.7	2115.4	2160.8	2143.5
52.5°	1879.4	1903.2	1979.0	2004.9	1987.6
55°	1719.1	1758.1	1820.9	1846.9	1831.7
57.5°	1580.6	1608.7	1686.7	1695.3	1686.7
60°	1435.5	1468.0	1530.8	1537.3	1519.9
62.5°	1296.9	1318.6	1374.9	1377.0	1357.6
65°	1149.7	1175.7	1214.7	1210.3	1190.8
67.5°	1004.6	1022.0	1058.8	1043.6	1022.0
70°	857.4	872.6	902.9	881.2	861.7
72.5°	714.5	725.3	751.3	718.8	695.0
75°	573.8	578.1	597.6	556.4	521.8
77.5°	435.2	439.5	450.4	409.2	370.2
80°	309.6	309.6	313.9	270.6	244.7
82.5°	194.9	194.9	192.7	160.2	145.1
85°	101.8	99.6	97.4	77.9	71.5
87.5°	36.8	36.8	30.3	28.1	30.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)