

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: P835693

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-1LO-20-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835693
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-2-INS-OPL-LD4-1LO-20-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

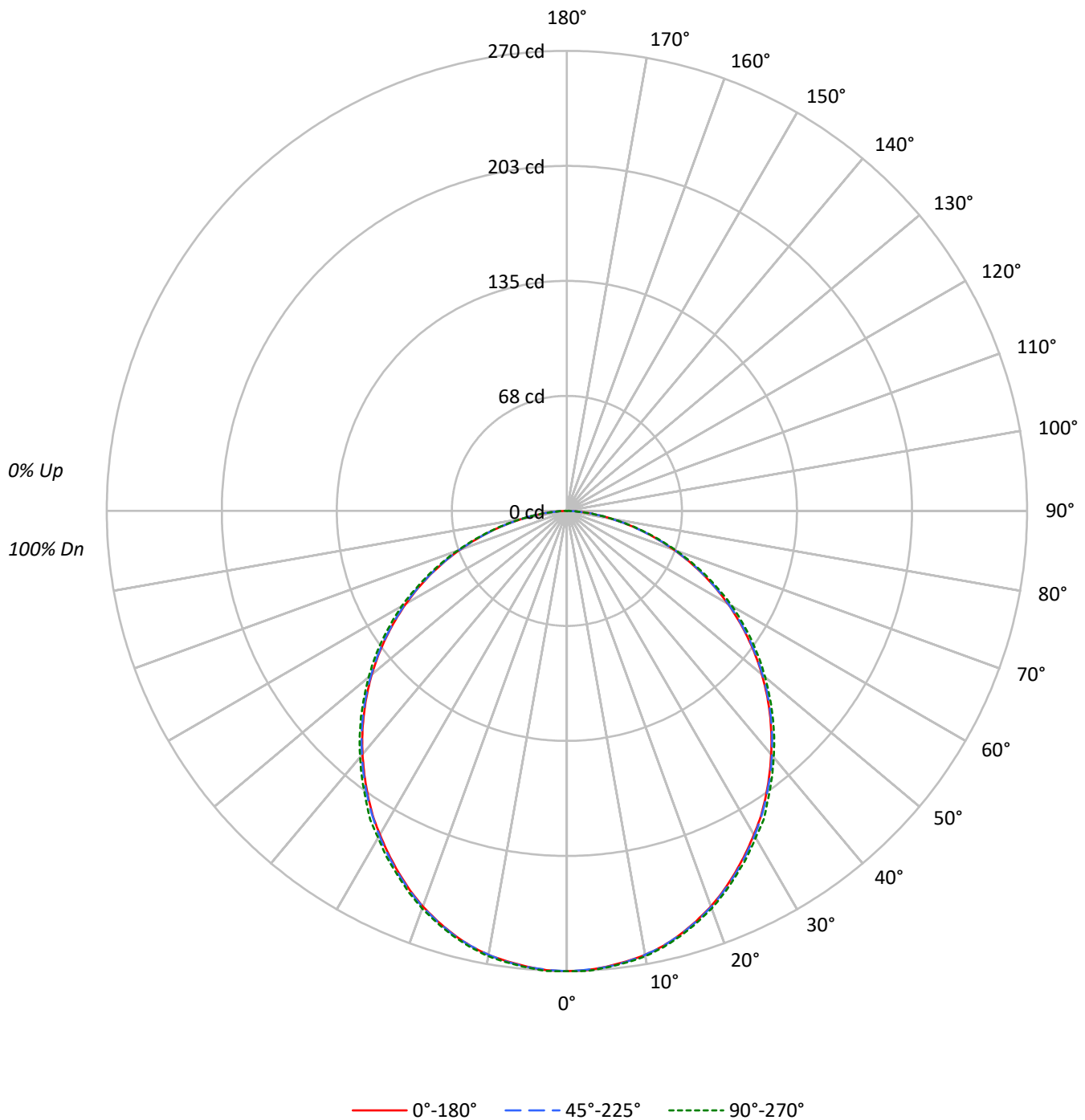
Lumens per Lamp: N/A
Luminaire Lumens: 730.1 lumens
Efficiency: N/A
Efficacy: 62.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
Input Voltage (V): 120
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: 28.75 FT

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Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



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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	104	100	96	106	102	98	95	98	94	92		94	91	89		90
2	99	91	84	78	96	89	83	77	85	80	76		82	78	74		79
3	90	80	72	65	88	78	71	65	75	69	64		73	67	62		70
4	83	71	62	55	80	69	61	55	67	60	54		65	58	53		62
5	76	63	54	48	74	62	54	47	60	53	47		58	52	46		56
6	70	57	48	42	68	56	48	42	54	47	41		53	46	41		51
7	65	52	43	37	64	51	43	37	49	42	36		48	41	36		47
8	61	47	39	33	59	47	38	33	45	38	33		44	37	32		43
9	57	43	35	30	55	43	35	30	42	34	29		41	34	29		40
10	53	40	32	27	52	40	32	27	39	32	27		38	31	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	727	727	727
5°	725	726	727
10°	723	723	725
15°	717	717	719
20°	708	708	711
25°	695	697	700
30°	682	684	688
35°	669	671	676
40°	655	657	663
45°	641	644	650
50°	625	628	635
55°	608	610	620
60°	587	590	603
65°	562	564	574
70°	527	528	539
75°	479	477	489
80°	412	411	417
85°	318	315	315



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.5	3.5
10°-20°	72.6	9.9
20°-30°	108.1	14.8
30°-40°	127.9	17.5
40°-50°	130.5	17.9
50°-60°	116.5	16.0
60°-70°	87.7	12.0
70°-80°	48.9	6.7
80°-90°	12.3	1.7
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°	206.3	28.3
0°-40°	334.2	45.8
0°-60°	581.2	79.6
0°-90°	730.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	730.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	270	270	270	270	270	
5°	268	269	269	269	269	26
15°	257	258	258	258	258	73
25°	234	234	235	235	236	108
35°	204	204	204	205	206	127
45°	168	168	169	170	171	130
55°	130	129	130	131	132	116
65°	88	88	88	89	90	87
75°	46	46	46	46	47	49
85°	10	10	10	10	10	12
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	270.2	270.2	270.2	270.2	270.2
2.5°	269.8	270.2	269.6	269.8	270.3
5°	268.5	269.0	268.7	268.7	269.0
7.5°	266.7	267.4	267.0	267.1	267.4
10°	264.6	265.1	264.6	264.9	265.4
12.5°	261.5	261.8	261.5	261.6	262.2
15°	257.3	257.6	257.5	257.7	258.2
17.5°	252.4	252.7	252.7	253.1	253.5
20°	247.1	247.2	247.4	247.8	248.3
22.5°	240.8	241.0	241.2	241.8	242.3
25°	234.0	234.3	234.6	235.2	235.6
27.5°	226.8	227.1	227.5	228.1	228.9
30°	219.4	219.4	220.1	220.8	221.5
32.5°	212.0	211.7	212.4	213.2	214.8
35°	203.7	203.5	204.2	205.0	205.9
37.5°	195.2	195.0	195.9	196.7	197.5
40°	186.5	186.3	187.1	188.0	188.8
42.5°	177.6	177.5	178.3	179.1	180.0
45°	168.4	168.3	169.1	170.0	170.8
47.5°	159.0	158.9	159.7	160.6	161.3
50°	149.4	149.3	150.0	150.9	151.8
52.5°	139.5	139.5	140.2	141.0	142.3
55°	129.5	129.3	130.1	131.0	132.2
57.5°	119.4	119.2	119.9	120.8	122.0
60°	109.1	108.9	109.6	110.5	112.1
62.5°	98.7	98.4	99.1	99.9	100.9
65°	88.2	87.9	88.5	89.3	90.2
67.5°	77.6	77.3	77.9	78.5	79.4
70°	67.0	66.6	67.1	67.7	68.5
72.5°	56.4	56.1	56.4	56.7	57.7
75°	46.1	45.7	45.9	46.2	47.0
77.5°	36.0	35.6	36.1	36.2	36.7
80°	26.6	26.2	26.5	26.5	26.9
82.5°	18.0	17.6	18.0	17.7	18.1
85°	10.3	10.1	10.2	10.1	10.2
87.5°	4.1	3.9	3.9	3.7	3.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)