

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: P835096

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-6LO-30-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835096
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-4-INS-OPL-LD4-6LO-30-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

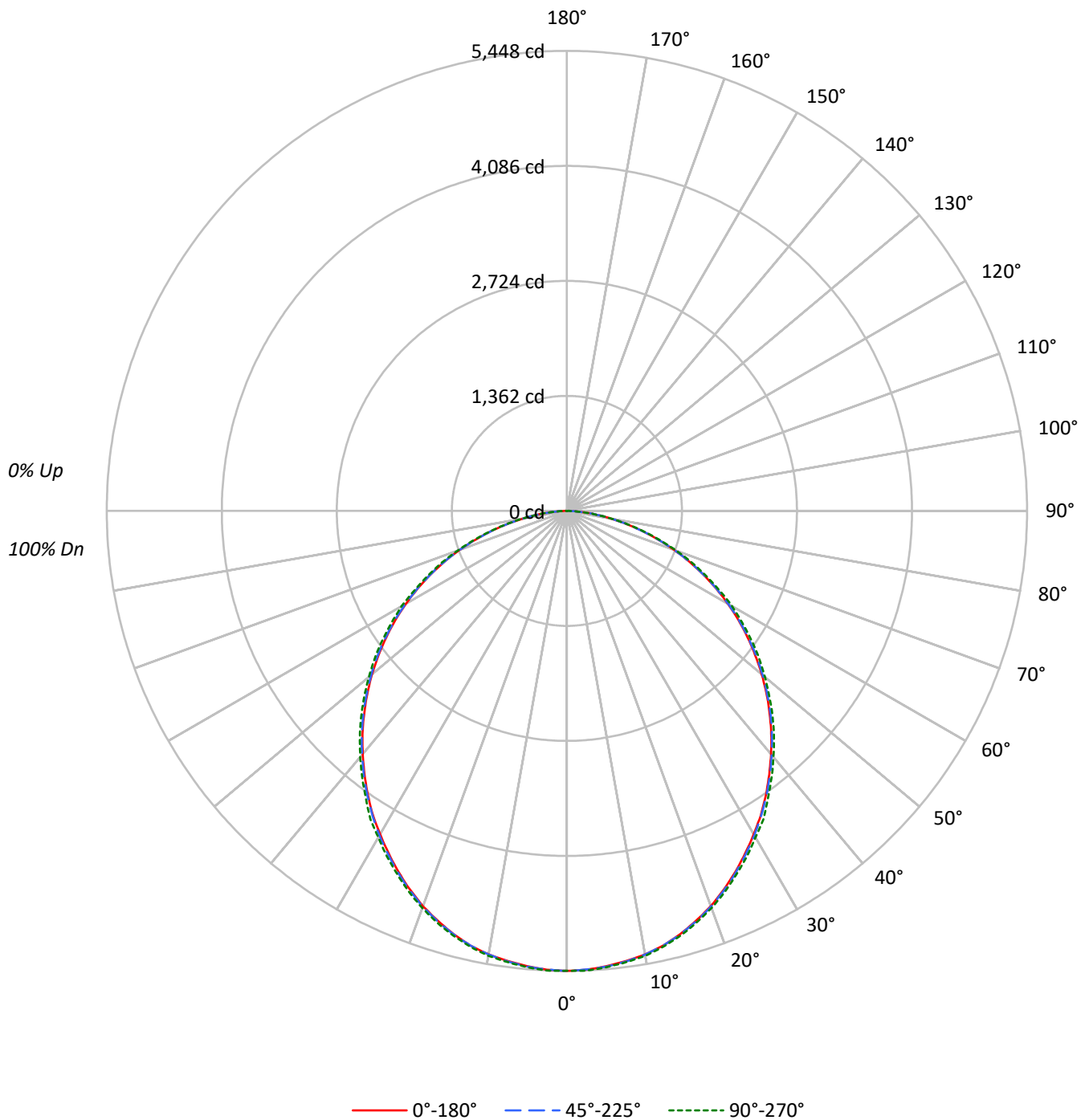
Lumens per Lamp: N/A
Luminaire Lumens: 14718.6 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 140.4
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°	7329	7329	7329
5°	7310	7316	7325
10°	7286	7288	7310
15°	7226	7231	7251
20°	7132	7140	7166
25°	7003	7020	7052
30°	6872	6895	6937
35°	6746	6763	6817
40°	6604	6626	6685
45°	6459	6487	6554
50°	6303	6331	6404
55°	6124	6153	6254
60°	5921	5945	6079
65°	5662	5680	5788
70°	5315	5319	5435
75°	4831	4813	4925
80°	4151	4133	4203
85°	3220	3169	3186

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	514.7	3.5
10°-20°	1464.2	9.9
20°-30°	2179.7	14.8
30°-40°	2577.7	17.5
40°-50°	2631.5	17.9
50°-60°	2348.4	16.0
60°-70°	1768.8	12.0
70°-80°	986.4	6.7
80°-90°	247.1	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°	4158.6	28.3
0°-40°	6736.3	45.8
0°-60°	11716.2	79.6
0°-90°	14718.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14718.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5447	5447	5447	5447	5447	
5°	5412	5422	5417	5418	5423	514
15°	5188	5193	5191	5196	5206	1462
25°	4717	4723	4729	4741	4750	2173
35°	4107	4103	4117	4133	4150	2568
45°	3395	3393	3409	3426	3444	2619
55°	2611	2607	2623	2641	2666	2334
65°	1778	1772	1784	1800	1818	1759
75°	929	921	926	930	947	985
85°	209	203	205	203	206	250
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5447.1	5447.1	5447.1	5447.1	5447.1
2.5°	5438.0	5447.1	5435.8	5438.0	5448.2
5°	5412.1	5422.3	5416.6	5417.7	5423.4
7.5°	5376.0	5389.6	5381.7	5383.9	5389.6
10°	5333.2	5343.3	5334.3	5339.9	5350.1
12.5°	5272.3	5276.8	5272.3	5274.5	5285.8
15°	5187.7	5193.3	5191.1	5195.6	5205.7
17.5°	5088.4	5095.2	5094.1	5103.1	5111.0
20°	4981.3	4982.4	4986.9	4996.0	5005.0
22.5°	4855.0	4858.4	4862.9	4875.3	4884.3
25°	4717.4	4723.0	4728.7	4741.1	4750.1
27.5°	4571.9	4577.6	4585.5	4599.0	4613.7
30°	4423.1	4423.1	4437.7	4451.3	4464.8
32.5°	4273.1	4267.4	4281.0	4297.9	4330.6
35°	4107.3	4102.8	4117.4	4133.2	4150.1
37.5°	3934.7	3931.4	3948.3	3965.2	3981.0
40°	3759.9	3755.4	3772.3	3789.3	3806.2
42.5°	3580.6	3578.4	3594.2	3611.1	3629.1
45°	3394.6	3393.4	3409.2	3426.1	3444.2
47.5°	3205.1	3202.8	3218.6	3236.7	3252.5
50°	3011.1	3008.9	3024.6	3042.7	3059.6
52.5°	2811.5	2811.5	2826.2	2841.9	2867.9
55°	2610.8	2607.4	2623.2	2641.2	2666.0
57.5°	2407.8	2403.3	2417.9	2436.0	2458.5
60°	2200.3	2195.7	2209.3	2227.3	2258.9
62.5°	1990.5	1983.7	1997.3	2014.2	2033.3
65°	1778.5	1771.7	1784.1	1799.9	1817.9
67.5°	1565.3	1557.4	1569.8	1583.4	1600.3
70°	1351.1	1343.2	1352.2	1365.7	1381.5
72.5°	1137.9	1130.0	1137.9	1143.5	1162.7
75°	929.3	921.4	925.9	930.4	947.3
77.5°	726.3	718.4	727.4	729.7	739.8
80°	535.7	527.8	533.4	534.6	542.5
82.5°	362.0	355.2	363.1	357.5	364.3
85°	208.6	203.0	205.3	203.0	206.4
87.5°	82.3	77.8	78.9	74.4	74.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)