

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: P835007

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-6STD-35-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835007
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-LD4-6STD-35-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

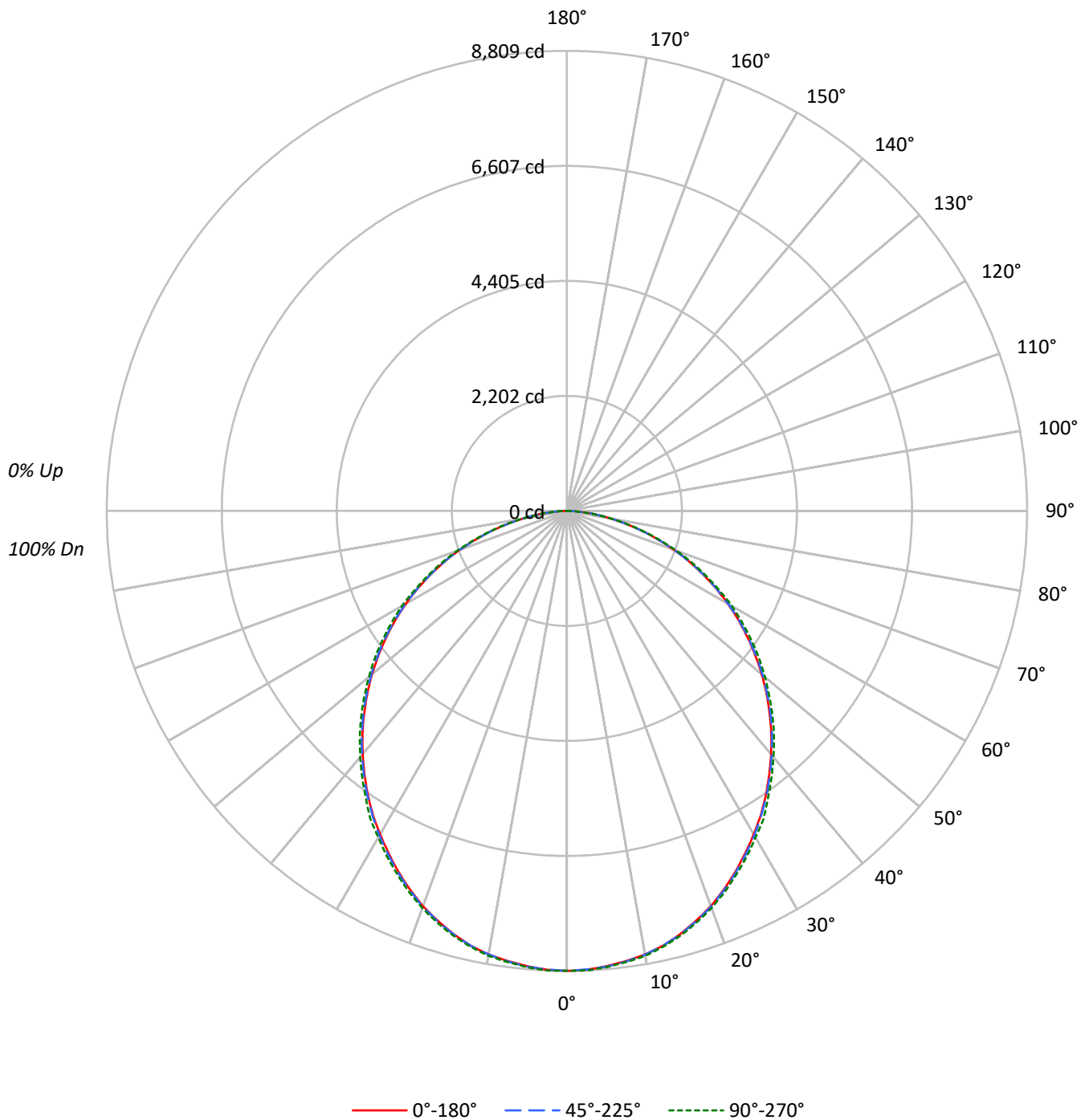
Lumens per Lamp: N/A
Luminaire Lumens: 23797.3 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 199.8
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

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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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	86	86	84
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	76	72	72	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	61	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	53	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	46	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	40	40	38
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	36	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	32	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	29	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	26	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11850	11850	11850
5°	11819	11828	11843
10°	11781	11783	11818
15°	11684	11691	11724
20°	11532	11545	11587
25°	11323	11350	11402
30°	11111	11147	11215
35°	10908	10935	11022
40°	10678	10713	10809
45°	10443	10488	10596
50°	10191	10236	10355
55°	9902	9949	10112
60°	9573	9612	9828
65°	9155	9184	9358
70°	8593	8600	8787
75°	7811	7782	7962
80°	6711	6683	6795
85°	5207	5124	5152

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	832.2	3.5
10°-20°	2367.3	9.9
20°-30°	3524.2	14.8
30°-40°	4167.7	17.5
40°-50°	4254.6	17.9
50°-60°	3797.0	16.0
60°-70°	2859.9	12.0
70°-80°	1594.9	6.7
80°-90°	399.6	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°	6723.7	28.3
0°-40°	10891.4	45.8
0°-60°	18943.0	79.6
0°-90°	23797.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23797.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8807	8807	8807	8807	8807	
5°	8750	8767	8758	8760	8769	831
15°	8388	8397	8393	8400	8417	2364
25°	7627	7636	7645	7666	7680	3514
35°	6641	6634	6657	6683	6710	4153
45°	5488	5487	5512	5539	5569	4234
55°	4221	4216	4241	4270	4310	3773
65°	2876	2864	2885	2910	2939	2844
75°	1502	1490	1497	1504	1532	1593
85°	337	328	332	328	334	405
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8806.9	8806.9	8806.9	8806.9	8806.9
2.5°	8792.4	8806.9	8788.7	8792.4	8808.8
5°	8750.4	8766.8	8757.7	8759.5	8768.7
7.5°	8692.1	8713.9	8701.2	8704.8	8713.9
10°	8622.8	8639.2	8624.6	8633.7	8650.1
12.5°	8524.3	8531.6	8524.3	8528.0	8546.2
15°	8387.6	8396.7	8393.0	8400.3	8416.7
17.5°	8227.1	8238.0	8236.2	8250.8	8263.6
20°	8053.9	8055.7	8063.0	8077.6	8092.2
22.5°	7849.7	7855.1	7862.4	7882.5	7897.1
25°	7627.2	7636.3	7645.4	7665.5	7680.1
27.5°	7392.0	7401.1	7413.9	7435.8	7459.5
30°	7151.3	7151.3	7175.0	7196.9	7218.8
32.5°	6908.8	6899.7	6921.6	6948.9	7001.8
35°	6640.8	6633.5	6657.2	6682.7	6710.1
37.5°	6361.8	6356.3	6383.7	6411.0	6436.5
40°	6079.2	6071.9	6099.2	6126.6	6153.9
42.5°	5789.2	5785.6	5811.1	5838.5	5867.6
45°	5488.4	5486.6	5512.1	5539.4	5568.6
47.5°	5182.1	5178.4	5203.9	5233.1	5258.6
50°	4868.4	4864.8	4890.3	4919.5	4946.8
52.5°	4545.7	4545.7	4569.4	4594.9	4636.9
55°	4221.1	4215.7	4241.2	4270.4	4310.5
57.5°	3892.9	3885.6	3909.3	3938.5	3975.0
60°	3557.4	3550.1	3572.0	3601.2	3652.2
62.5°	3218.3	3207.3	3229.2	3256.6	3287.6
65°	2875.5	2864.5	2884.6	2910.1	2939.3
67.5°	2530.9	2518.1	2538.1	2560.0	2587.4
70°	2184.4	2171.6	2186.2	2208.1	2233.6
72.5°	1839.8	1827.0	1839.8	1848.9	1879.9
75°	1502.5	1489.7	1497.0	1504.3	1531.6
77.5°	1174.3	1161.5	1176.1	1179.7	1196.1
80°	866.1	853.3	862.5	864.3	877.0
82.5°	585.3	574.4	587.1	578.0	589.0
85°	337.3	328.2	331.9	328.2	333.7
87.5°	133.1	125.8	127.6	120.3	120.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)