

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: P835766

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-1STD-40-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835766
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-LD4-1STD-40-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

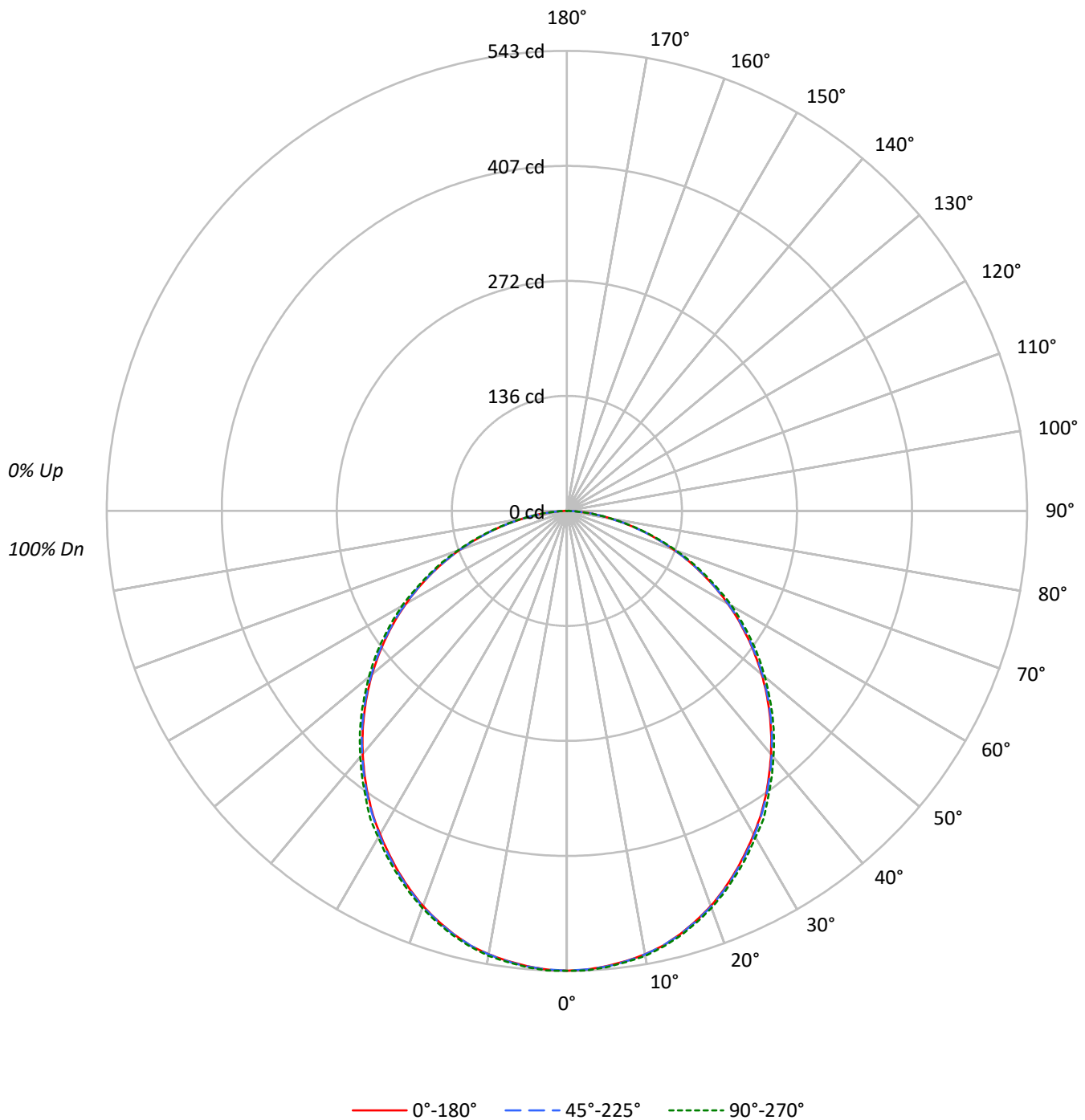
Lumens per Lamp: N/A
Luminaire Lumens: 1466.8 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
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	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°	1461	1461	1461
5°	1457	1458	1460
10°	1452	1453	1457
15°	1440	1441	1445
20°	1422	1423	1428
25°	1396	1399	1406
30°	1370	1374	1382
35°	1345	1348	1359
40°	1316	1320	1332
45°	1287	1293	1306
50°	1256	1262	1276
55°	1221	1226	1247
60°	1180	1185	1211
65°	1128	1132	1154
70°	1059	1061	1083
75°	963	960	981
80°	828	824	838
85°	642	633	636



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.3	3.5
10°-20°	145.9	9.9
20°-30°	217.2	14.8
30°-40°	256.9	17.5
40°-50°	262.2	17.9
50°-60°	234.0	16.0
60°-70°	176.3	12.0
70°-80°	98.3	6.7
80°-90°	24.6	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°	414.4	28.3
0°-40°	671.3	45.8
0°-60°	1167.6	79.6
0°-90°	1466.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1466.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	543	543	543	543	543	
5°	539	540	540	540	540	51
15°	517	518	517	518	519	146
25°	470	471	471	472	473	217
35°	409	409	410	412	414	256
45°	338	338	340	341	343	261
55°	260	260	261	263	266	233
65°	177	177	178	179	181	175
75°	93	92	92	93	94	98
85°	21	20	20	20	21	25
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	542.8	542.8	542.8	542.8	542.8
2.5°	541.9	542.8	541.7	541.9	542.9
5°	539.3	540.3	539.8	539.9	540.5
7.5°	535.7	537.1	536.3	536.5	537.1
10°	531.5	532.5	531.6	532.1	533.2
12.5°	525.4	525.9	525.4	525.6	526.8
15°	517.0	517.5	517.3	517.8	518.8
17.5°	507.1	507.8	507.6	508.5	509.3
20°	496.4	496.5	497.0	497.9	498.8
22.5°	483.8	484.2	484.6	485.8	486.7
25°	470.1	470.7	471.2	472.5	473.4
27.5°	455.6	456.2	457.0	458.3	459.8
30°	440.8	440.8	442.2	443.6	444.9
32.5°	425.8	425.3	426.6	428.3	431.6
35°	409.3	408.9	410.3	411.9	413.6
37.5°	392.1	391.8	393.5	395.1	396.7
40°	374.7	374.2	375.9	377.6	379.3
42.5°	356.8	356.6	358.2	359.9	361.7
45°	338.3	338.2	339.7	341.4	343.2
47.5°	319.4	319.2	320.7	322.5	324.1
50°	300.1	299.8	301.4	303.2	304.9
52.5°	280.2	280.2	281.6	283.2	285.8
55°	260.2	259.8	261.4	263.2	265.7
57.5°	239.9	239.5	241.0	242.8	245.0
60°	219.3	218.8	220.2	222.0	225.1
62.5°	198.4	197.7	199.0	200.7	202.6
65°	177.2	176.6	177.8	179.4	181.2
67.5°	156.0	155.2	156.4	157.8	159.5
70°	134.6	133.9	134.8	136.1	137.7
72.5°	113.4	112.6	113.4	114.0	115.9
75°	92.6	91.8	92.3	92.7	94.4
77.5°	72.4	71.6	72.5	72.7	73.7
80°	53.4	52.6	53.2	53.3	54.1
82.5°	36.1	35.4	36.2	35.6	36.3
85°	20.8	20.2	20.5	20.2	20.6
87.5°	8.2	7.8	7.9	7.4	7.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)