

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: P835748

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-1STD-35-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835748
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-35-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

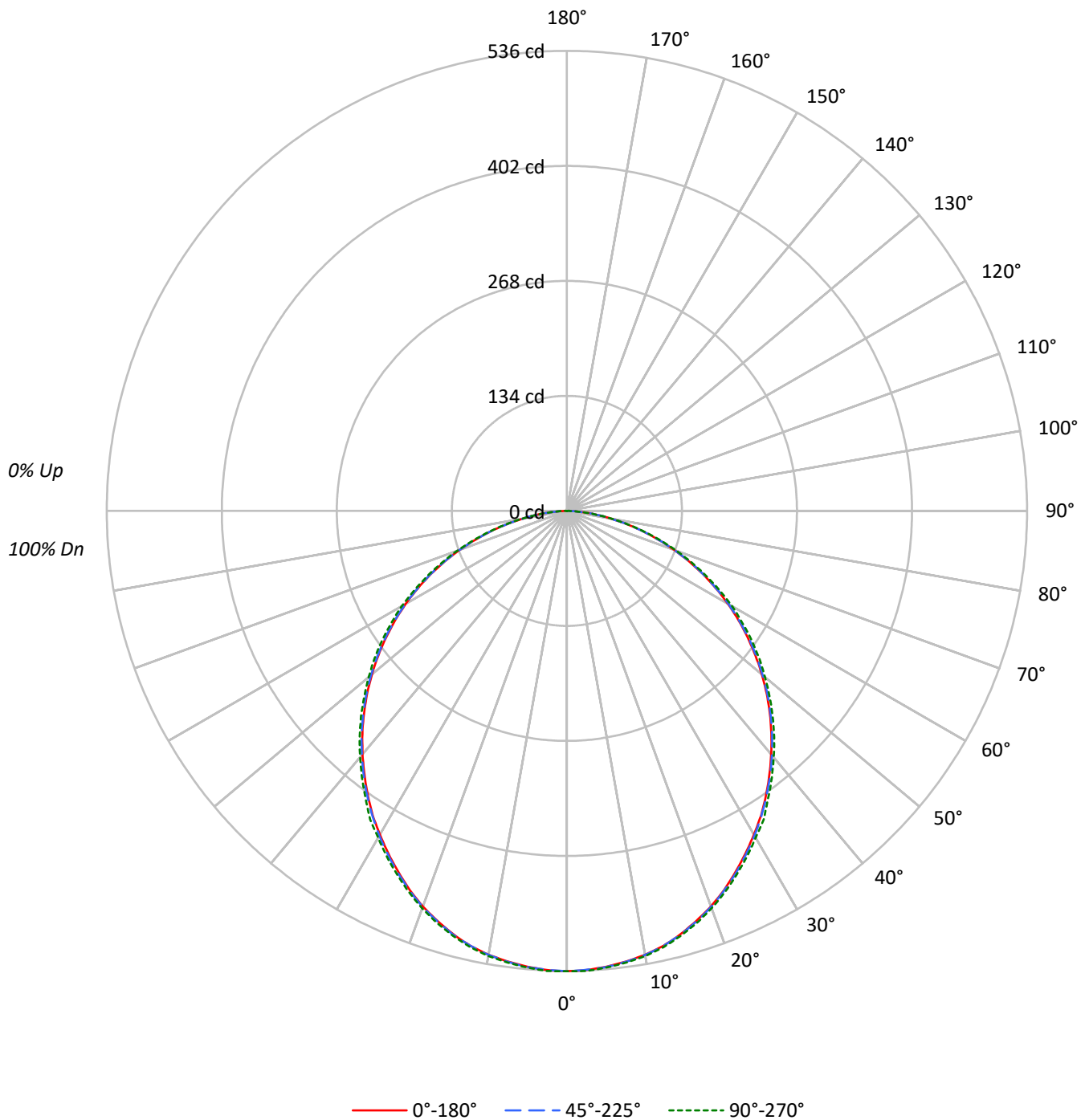
Lumens per Lamp: N/A
Luminaire Lumens: 1449.3 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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	27	27	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1443	1443	1443
5°	1440	1441	1442
10°	1435	1435	1439
15°	1423	1424	1428
20°	1405	1406	1411
25°	1379	1382	1389
30°	1353	1358	1366
35°	1328	1332	1343
40°	1300	1305	1317
45°	1272	1278	1290
50°	1241	1247	1261
55°	1206	1212	1232
60°	1166	1171	1197
65°	1115	1119	1140
70°	1046	1047	1070
75°	951	948	970
80°	817	814	828
85°	633	624	627



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.7	3.5
10°-20°	144.2	9.9
20°-30°	214.6	14.8
30°-40°	253.8	17.5
40°-50°	259.1	17.9
50°-60°	231.2	16.0
60°-70°	174.2	12.0
70°-80°	97.1	6.7
80°-90°	24.3	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°	409.5	28.3
0°-40°	663.3	45.8
0°-60°	1153.7	79.6
0°-90°	1449.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1449.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	536	536	536	536	536	
5°	533	534	533	534	534	51
15°	511	511	511	512	513	144
25°	464	465	466	467	468	214
35°	404	404	405	407	409	253
45°	334	334	336	337	339	258
55°	257	257	258	260	262	230
65°	175	174	176	177	179	173
75°	92	91	91	92	93	97
85°	20	20	20	20	20	25
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	536.4	536.4	536.4	536.4	536.4
2.5°	535.5	536.4	535.2	535.5	536.5
5°	532.9	533.9	533.4	533.5	534.0
7.5°	529.4	530.7	529.9	530.1	530.7
10°	525.1	526.1	525.3	525.8	526.8
12.5°	519.1	519.6	519.1	519.4	520.5
15°	510.8	511.4	511.2	511.6	512.6
17.5°	501.0	501.7	501.6	502.5	503.3
20°	490.5	490.6	491.1	491.9	492.8
22.5°	478.1	478.4	478.8	480.1	480.9
25°	464.5	465.1	465.6	466.8	467.7
27.5°	450.2	450.7	451.5	452.9	454.3
30°	435.5	435.5	437.0	438.3	439.6
32.5°	420.8	420.2	421.5	423.2	426.4
35°	404.4	404.0	405.4	407.0	408.7
37.5°	387.4	387.1	388.8	390.4	392.0
40°	370.2	369.8	371.5	373.1	374.8
42.5°	352.6	352.4	353.9	355.6	357.4
45°	334.3	334.1	335.7	337.4	339.1
47.5°	315.6	315.4	316.9	318.7	320.3
50°	296.5	296.3	297.8	299.6	301.3
52.5°	276.8	276.8	278.3	279.8	282.4
55°	257.1	256.7	258.3	260.1	262.5
57.5°	237.1	236.6	238.1	239.9	242.1
60°	216.7	216.2	217.5	219.3	222.4
62.5°	196.0	195.3	196.7	198.3	200.2
65°	175.1	174.5	175.7	177.2	179.0
67.5°	154.1	153.4	154.6	155.9	157.6
70°	133.0	132.3	133.1	134.5	136.0
72.5°	112.0	111.3	112.0	112.6	114.5
75°	91.5	90.7	91.2	91.6	93.3
77.5°	71.5	70.7	71.6	71.8	72.8
80°	52.7	52.0	52.5	52.6	53.4
82.5°	35.6	35.0	35.8	35.2	35.9
85°	20.5	20.0	20.2	20.0	20.3
87.5°	8.1	7.7	7.8	7.3	7.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)