

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: P835135

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-1LO-50-120-EDD-90**

Issue Date: 5/16/2024

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

**Test Information**

Test Method: LM-79-08
Report Number: P835135
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-LD4-1LO-50-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

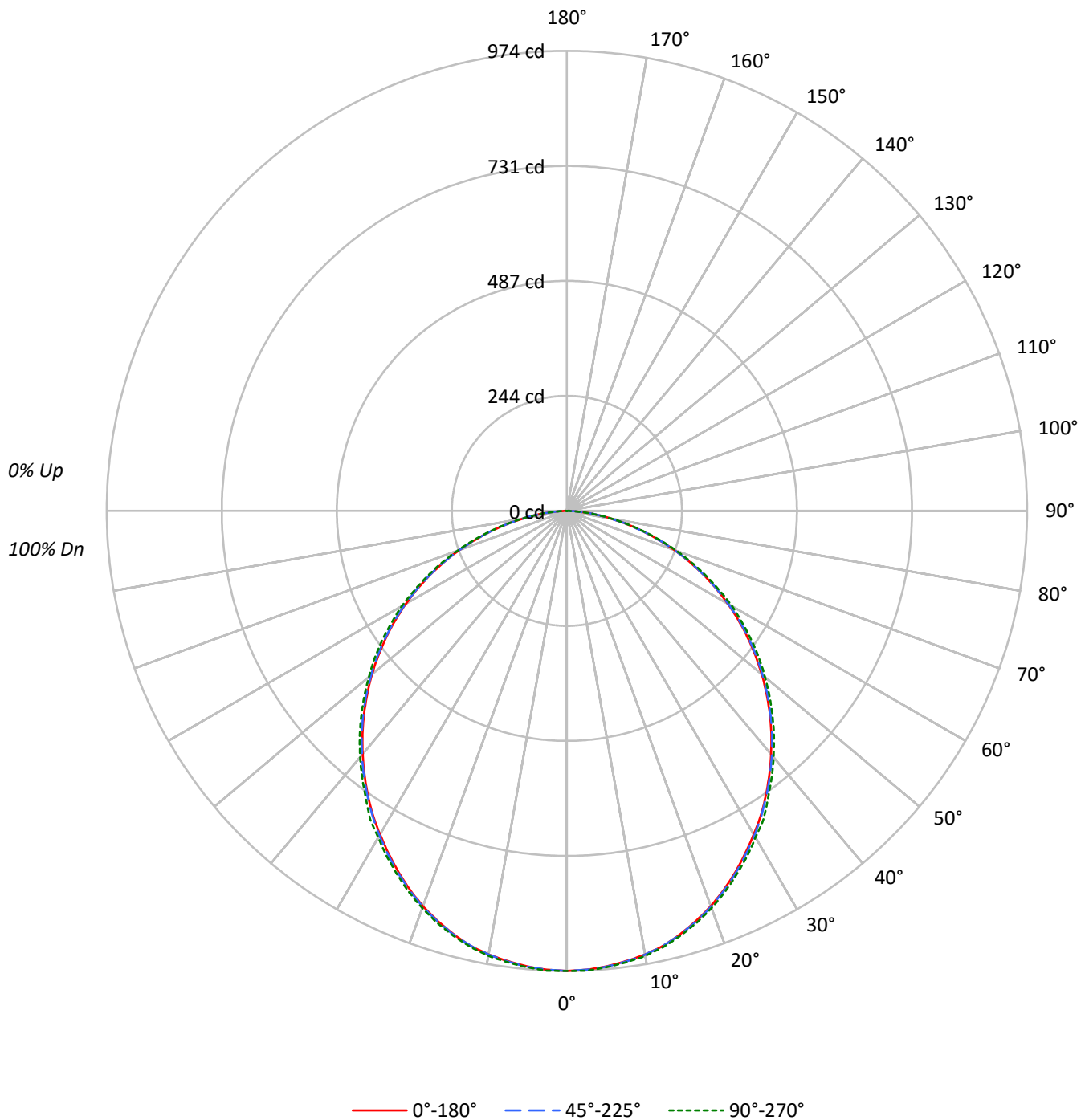
Lumens per Lamp: N/A
Luminaire Lumens: 2632.2 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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

TEST NUMBER: P835135

CATALOG NUMBER: ORLG-24-4-INS-OPL-LD4-1LO-50-120-EDD-90

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P835135

CATALOG NUMBER: ORLG-24-4-INS-OPL-LD4-1LO-50-120-EDD-90

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1311	1311	1311
5°	1307	1308	1310
10°	1303	1303	1307
15°	1292	1293	1297
20°	1275	1277	1282
25°	1252	1255	1261
30°	1229	1233	1241
35°	1206	1209	1219
40°	1181	1185	1196
45°	1155	1160	1172
50°	1127	1132	1145
55°	1095	1100	1118
60°	1059	1063	1087
65°	1013	1016	1035
70°	950	951	972
75°	864	861	881
80°	742	739	752
85°	576	567	570

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P835135

CATALOG NUMBER: ORLG-24-4-INS-OPL-LD4-1LO-50-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.0	3.5
10°-20°	261.8	9.9
20°-30°	389.8	14.8
30°-40°	461.0	17.5
40°-50°	470.6	17.9
50°-60°	420.0	16.0
60°-70°	316.3	12.0
70°-80°	176.4	6.7
80°-90°	44.2	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°	743.7	28.3
0°-40°	1204.7	45.8
0°-60°	2095.2	79.6
0°-90°	2632.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2632.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	974	974	974	974	974	
5°	968	970	969	969	970	92
15°	928	929	928	929	931	261
25°	844	845	846	848	850	389
35°	734	734	736	739	742	459
45°	607	607	610	613	616	468
55°	467	466	469	472	477	417
65°	318	317	319	322	325	315
75°	166	165	166	166	169	176
85°	37	36	37	36	37	45
90°	0	0	0	0	0	

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P835135

CATALOG NUMBER: ORLG-24-4-INS-OPL-LD4-1LO-50-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	974.1	974.1	974.1	974.1	974.1
2.5°	972.5	974.1	972.1	972.5	974.3
5°	967.9	969.7	968.7	968.9	969.9
7.5°	961.4	963.8	962.4	962.8	963.8
10°	953.7	955.6	953.9	955.0	956.8
12.5°	942.9	943.7	942.9	943.3	945.3
15°	927.7	928.7	928.3	929.1	931.0
17.5°	910.0	911.2	911.0	912.6	914.0
20°	890.8	891.0	891.8	893.4	895.1
22.5°	868.2	868.8	869.6	871.9	873.5
25°	843.6	844.6	845.6	847.9	849.5
27.5°	817.6	818.6	820.0	822.5	825.1
30°	791.0	791.0	793.6	796.0	798.5
32.5°	764.2	763.2	765.6	768.6	774.5
35°	734.5	733.7	736.3	739.2	742.2
37.5°	703.7	703.1	706.1	709.1	711.9
40°	672.4	671.6	674.6	677.6	680.7
42.5°	640.3	639.9	642.8	645.8	649.0
45°	607.1	606.9	609.7	612.7	615.9
47.5°	573.2	572.8	575.6	578.8	581.6
50°	538.5	538.1	540.9	544.1	547.2
52.5°	502.8	502.8	505.4	508.2	512.9
55°	466.9	466.3	469.1	472.3	476.8
57.5°	430.6	429.8	432.4	435.6	439.7
60°	393.5	392.7	395.1	398.3	404.0
62.5°	356.0	354.8	357.2	360.2	363.6
65°	318.1	316.8	319.1	321.9	325.1
67.5°	279.9	278.5	280.7	283.2	286.2
70°	241.6	240.2	241.8	244.2	247.1
72.5°	203.5	202.1	203.5	204.5	207.9
75°	166.2	164.8	165.6	166.4	169.4
77.5°	129.9	128.5	130.1	130.5	132.3
80°	95.8	94.4	95.4	95.6	97.0
82.5°	64.7	63.5	64.9	63.9	65.1
85°	37.3	36.3	36.7	36.3	36.9
87.5°	14.7	13.9	14.1	13.3	13.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)