

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: P834938

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-1STD-20-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834938
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-LD4-1STD-20-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

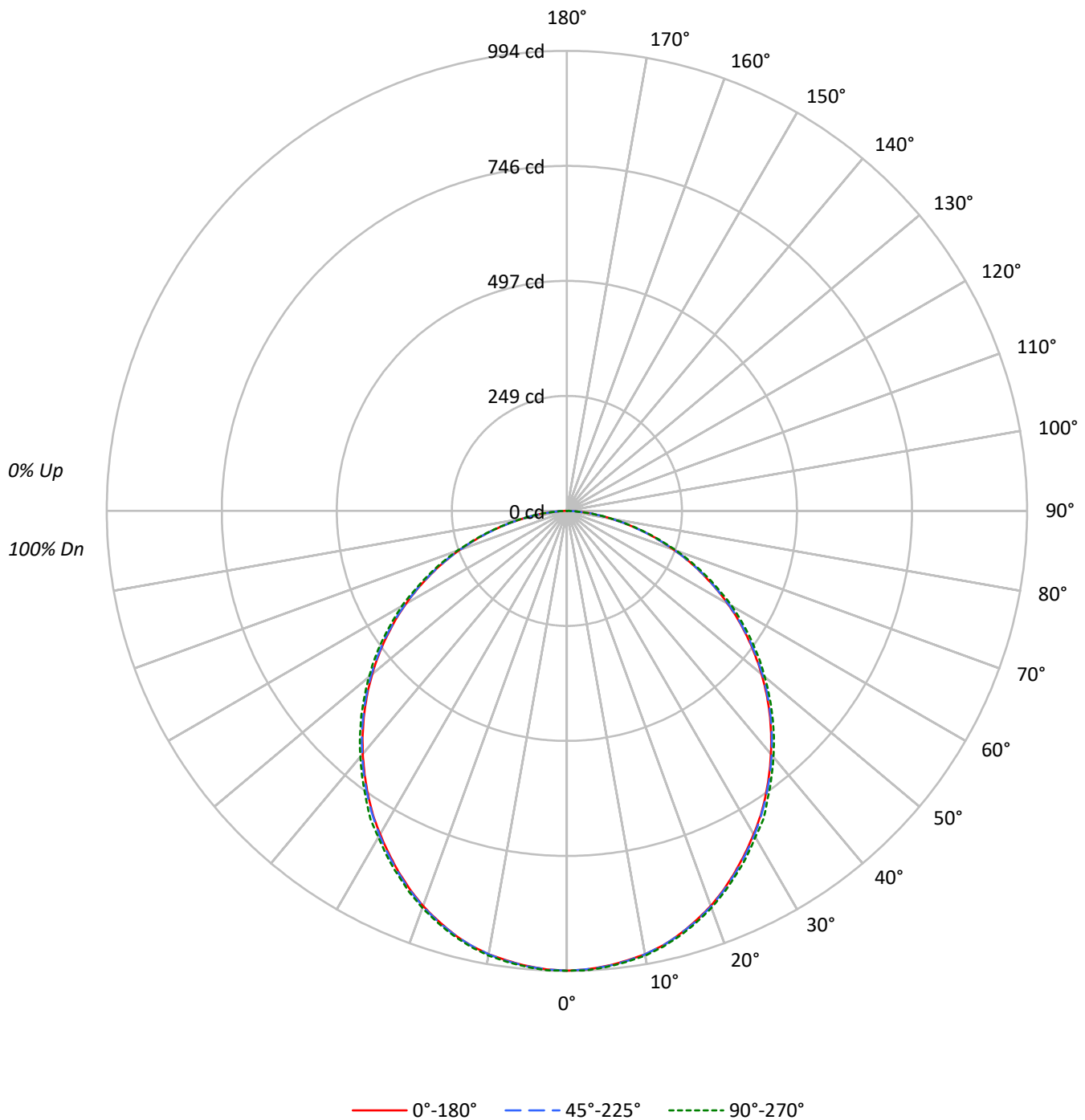
Lumens per Lamp: N/A
Luminaire Lumens: 2684.2 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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°	1337	1337	1337
5°	1333	1334	1336
10°	1329	1329	1333
15°	1318	1319	1322
20°	1301	1302	1307
25°	1277	1280	1286
30°	1253	1257	1265
35°	1230	1233	1243
40°	1204	1208	1219
45°	1178	1183	1195
50°	1149	1155	1168
55°	1117	1122	1141
60°	1080	1084	1109
65°	1032	1036	1055
70°	969	970	991
75°	881	878	898
80°	757	754	766
85°	587	577	580



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.9	3.5
10°-20°	267.0	9.9
20°-30°	397.5	14.8
30°-40°	470.1	17.5
40°-50°	479.9	17.9
50°-60°	428.3	16.0
60°-70°	322.6	12.0
70°-80°	179.9	6.7
80°-90°	45.1	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°	758.4	28.3
0°-40°	1228.5	45.8
0°-60°	2136.7	79.6
0°-90°	2684.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2684.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	993	993	993	993	993	
5°	987	989	988	988	989	94
15°	946	947	947	948	949	267
25°	860	861	862	865	866	396
35°	749	748	751	754	757	468
45°	619	619	622	625	628	478
55°	476	476	478	482	486	426
65°	324	323	325	328	332	321
75°	170	168	169	170	173	180
85°	38	37	37	37	38	46
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	993.4	993.4	993.4	993.4	993.4
2.5°	991.7	993.4	991.3	991.7	993.6
5°	987.0	988.9	987.8	988.0	989.1
7.5°	980.4	982.9	981.4	981.9	982.9
10°	972.6	974.5	972.8	973.8	975.7
12.5°	961.5	962.3	961.5	961.9	964.0
15°	946.1	947.1	946.7	947.5	949.4
17.5°	928.0	929.2	929.0	930.6	932.1
20°	908.4	908.6	909.5	911.1	912.8
22.5°	885.4	886.0	886.8	889.1	890.7
25°	860.3	861.3	862.4	864.6	866.3
27.5°	833.8	834.8	836.2	838.7	841.4
30°	806.6	806.6	809.3	811.8	814.2
32.5°	779.3	778.2	780.7	783.8	789.8
35°	749.0	748.2	750.9	753.8	756.9
37.5°	717.6	717.0	720.0	723.1	726.0
40°	685.7	684.9	688.0	691.0	694.1
42.5°	653.0	652.6	655.5	658.5	661.8
45°	619.1	618.9	621.7	624.8	628.1
47.5°	584.5	584.1	587.0	590.3	593.1
50°	549.1	548.7	551.6	554.9	558.0
52.5°	512.7	512.7	515.4	518.3	523.0
55°	476.1	475.5	478.4	481.7	486.2
57.5°	439.1	438.3	441.0	444.2	448.4
60°	401.3	400.4	402.9	406.2	412.0
62.5°	363.0	361.8	364.2	367.3	370.8
65°	324.3	323.1	325.4	328.2	331.5
67.5°	285.5	284.0	286.3	288.8	291.8
70°	246.4	245.0	246.6	249.1	251.9
72.5°	207.5	206.1	207.5	208.5	212.0
75°	169.5	168.0	168.9	169.7	172.8
77.5°	132.5	131.0	132.7	133.1	134.9
80°	97.7	96.3	97.3	97.5	98.9
82.5°	66.0	64.8	66.2	65.2	66.4
85°	38.0	37.0	37.4	37.0	37.6
87.5°	15.0	14.2	14.4	13.6	13.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)