

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: P835667

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-4STD-40-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835667
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-LD4-4STD-40-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

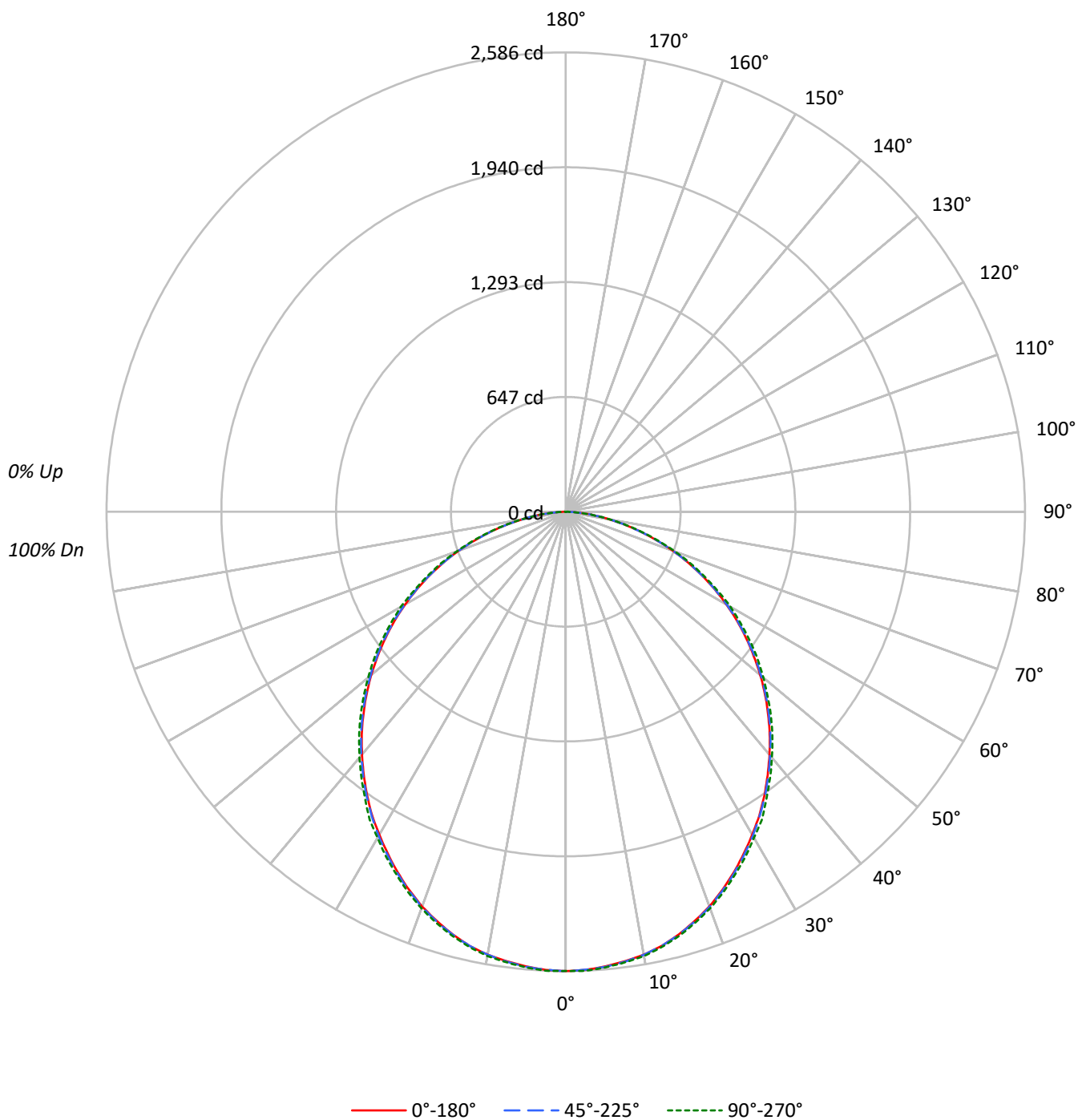
Lumens per Lamp: N/A
Luminaire Lumens: 6986.5 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
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	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°	6958	6958	6958
5°	6940	6945	6954
10°	6917	6919	6939
15°	6860	6865	6884
20°	6771	6779	6803
25°	6649	6665	6695
30°	6524	6545	6585
35°	6405	6420	6472
40°	6269	6290	6347
45°	6132	6159	6222
50°	5984	6010	6080
55°	5814	5841	5937
60°	5621	5644	5771
65°	5375	5393	5494
70°	5046	5050	5160
75°	4586	4570	4676
80°	3941	3924	3990
85°	3057	3007	3026



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.3	3.5
10°-20°	695.0	9.9
20°-30°	1034.6	14.8
30°-40°	1223.6	17.5
40°-50°	1249.1	17.9
50°-60°	1114.7	16.0
60°-70°	839.6	12.0
70°-80°	468.2	6.7
80°-90°	117.3	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°	1974.0	28.3
0°-40°	3197.5	45.8
0°-60°	5561.3	79.6
0°-90°	6986.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6986.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2586	2586	2586	2586	2586	
5°	2569	2574	2571	2572	2574	244
15°	2462	2465	2464	2466	2471	694
25°	2239	2242	2245	2250	2255	1032
35°	1950	1948	1954	1962	1970	1219
45°	1611	1611	1618	1626	1635	1243
55°	1239	1238	1245	1254	1266	1108
65°	844	841	847	854	863	835
75°	441	437	440	442	450	468
85°	99	96	97	96	98	119
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2585.6	2585.6	2585.6	2585.6	2585.6
2.5°	2581.3	2585.6	2580.2	2581.3	2586.1
5°	2569.0	2573.8	2571.1	2571.7	2574.3
7.5°	2551.8	2558.3	2554.5	2555.6	2558.3
10°	2531.5	2536.3	2532.0	2534.7	2539.5
12.5°	2502.6	2504.7	2502.6	2503.7	2509.0
15°	2462.4	2465.1	2464.1	2466.2	2471.0
17.5°	2415.3	2418.6	2418.0	2422.3	2426.0
20°	2364.5	2365.0	2367.2	2371.4	2375.7
22.5°	2304.5	2306.1	2308.3	2314.2	2318.4
25°	2239.2	2241.9	2244.6	2250.5	2254.7
27.5°	2170.2	2172.8	2176.6	2183.0	2190.0
30°	2099.5	2099.5	2106.5	2112.9	2119.3
32.5°	2028.3	2025.6	2032.1	2040.1	2055.6
35°	1949.6	1947.5	1954.4	1961.9	1970.0
37.5°	1867.7	1866.1	1874.1	1882.2	1889.7
40°	1784.7	1782.6	1790.6	1798.7	1806.7
42.5°	1699.6	1698.6	1706.0	1714.1	1722.6
45°	1611.3	1610.8	1618.3	1626.3	1634.9
47.5°	1521.4	1520.3	1527.8	1536.4	1543.8
50°	1429.3	1428.2	1435.7	1444.3	1452.3
52.5°	1334.5	1334.5	1341.5	1349.0	1361.3
55°	1239.3	1237.6	1245.1	1253.7	1265.5
57.5°	1142.9	1140.8	1147.7	1156.3	1167.0
60°	1044.4	1042.3	1048.7	1057.2	1072.2
62.5°	944.8	941.6	948.0	956.1	965.2
65°	844.2	841.0	846.9	854.4	862.9
67.5°	743.0	739.3	745.2	751.6	759.6
70°	641.3	637.6	641.8	648.3	655.8
72.5°	540.1	536.4	540.1	542.8	551.9
75°	441.1	437.4	439.5	441.6	449.7
77.5°	344.7	341.0	345.3	346.3	351.2
80°	254.3	250.5	253.2	253.7	257.5
82.5°	171.8	168.6	172.4	169.7	172.9
85°	99.0	96.4	97.4	96.4	98.0
87.5°	39.1	36.9	37.5	35.3	35.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)