

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: P834399

Luminaire Tested: **ORLG-12-4-INS-OPL-LD4-1HI-20-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834399
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-12-4-INS-OPL-LD4-1HI-20-120-EDD
Description: 1FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

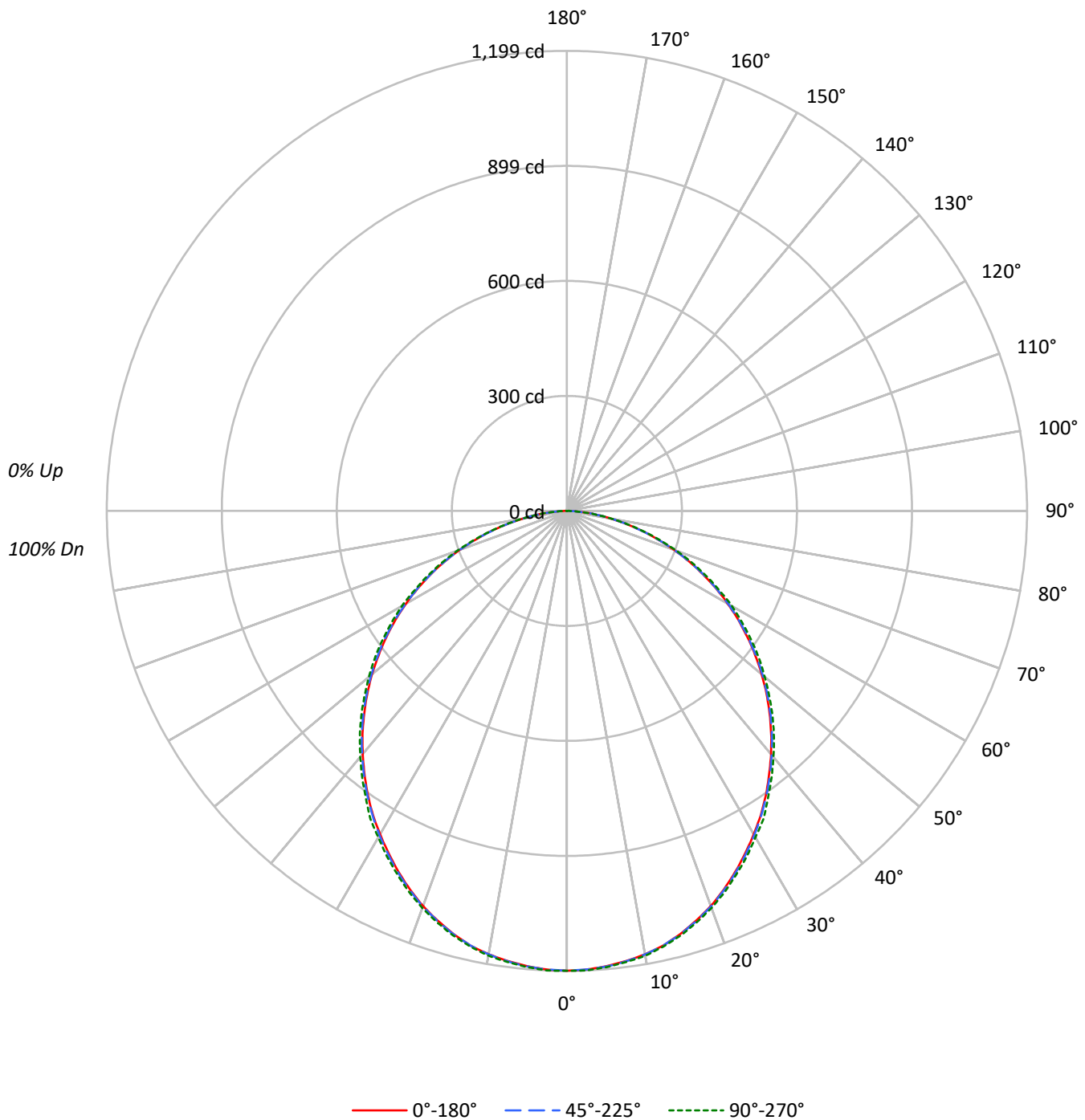
Lumens per Lamp: N/A
Luminaire Lumens: 3238.7 lumens
Efficiency: N/A
Efficacy: 73.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 44
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

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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°	3225	3225	3225
5°	3217	3220	3224
10°	3207	3207	3217
15°	3180	3182	3191
20°	3139	3142	3154
25°	3082	3089	3103
30°	3024	3034	3053
35°	2969	2976	3000
40°	2906	2916	2942
45°	2842	2855	2884
50°	2774	2786	2818
55°	2695	2708	2752
60°	2605	2616	2675
65°	2492	2500	2547
70°	2339	2341	2392
75°	2126	2118	2167
80°	1827	1819	1850
85°	1417	1396	1402

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.3	3.5
10°-20°	322.2	9.9
20°-30°	479.6	14.8
30°-40°	567.2	17.5
40°-50°	579.0	17.9
50°-60°	516.7	16.0
60°-70°	389.2	12.0
70°-80°	217.1	6.7
80°-90°	54.4	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°	915.1	28.3
0°-40°	1482.3	45.8
0°-60°	2578.1	79.6
0°-90°	3238.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3238.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1199	1199	1199	1199	1199	
5°	1191	1193	1192	1192	1193	113
15°	1142	1143	1142	1143	1146	322
25°	1038	1039	1040	1043	1045	478
35°	904	903	906	910	913	565
45°	747	747	750	754	758	576
55°	574	574	577	581	587	514
65°	391	390	393	396	400	387
75°	204	203	204	205	208	217
85°	46	45	45	45	45	55
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1198.6	1198.6	1198.6	1198.6	1198.6
2.5°	1196.6	1198.6	1196.1	1196.6	1198.8
5°	1190.9	1193.1	1191.9	1192.1	1193.4
7.5°	1183.0	1185.9	1184.2	1184.7	1185.9
10°	1173.5	1175.8	1173.8	1175.0	1177.2
12.5°	1160.1	1161.1	1160.1	1160.6	1163.1
15°	1141.5	1142.8	1142.3	1143.2	1145.5
17.5°	1119.7	1121.2	1120.9	1122.9	1124.6
20°	1096.1	1096.3	1097.3	1099.3	1101.3
22.5°	1068.3	1069.0	1070.0	1072.8	1074.8
25°	1038.0	1039.3	1040.5	1043.2	1045.2
27.5°	1006.0	1007.3	1009.0	1012.0	1015.2
30°	973.3	973.3	976.5	979.5	982.4
32.5°	940.3	939.0	942.0	945.7	952.9
35°	903.8	902.8	906.0	909.5	913.2
37.5°	865.8	865.1	868.8	872.5	876.0
40°	827.3	826.4	830.1	833.8	837.5
42.5°	787.9	787.4	790.9	794.6	798.6
45°	746.9	746.7	750.2	753.9	757.9
47.5°	705.3	704.8	708.2	712.2	715.7
50°	662.6	662.1	665.6	669.5	673.2
52.5°	618.6	618.6	621.9	625.3	631.1
55°	574.5	573.7	577.2	581.2	586.6
57.5°	529.8	528.8	532.0	536.0	541.0
60°	484.1	483.2	486.1	490.1	497.1
62.5°	438.0	436.5	439.5	443.2	447.4
65°	391.3	389.9	392.6	396.1	400.0
67.5°	344.4	342.7	345.4	348.4	352.1
70°	297.3	295.6	297.5	300.5	304.0
72.5°	250.4	248.7	250.4	251.6	255.8
75°	204.5	202.7	203.7	204.7	208.4
77.5°	159.8	158.1	160.1	160.6	162.8
80°	117.9	116.1	117.4	117.6	119.4
82.5°	79.7	78.2	79.9	78.7	80.2
85°	45.9	44.7	45.2	44.7	45.4
87.5°	18.1	17.1	17.4	16.4	16.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)