

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: P835735

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-3LO-30-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835735
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-LD4-3LO-30-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

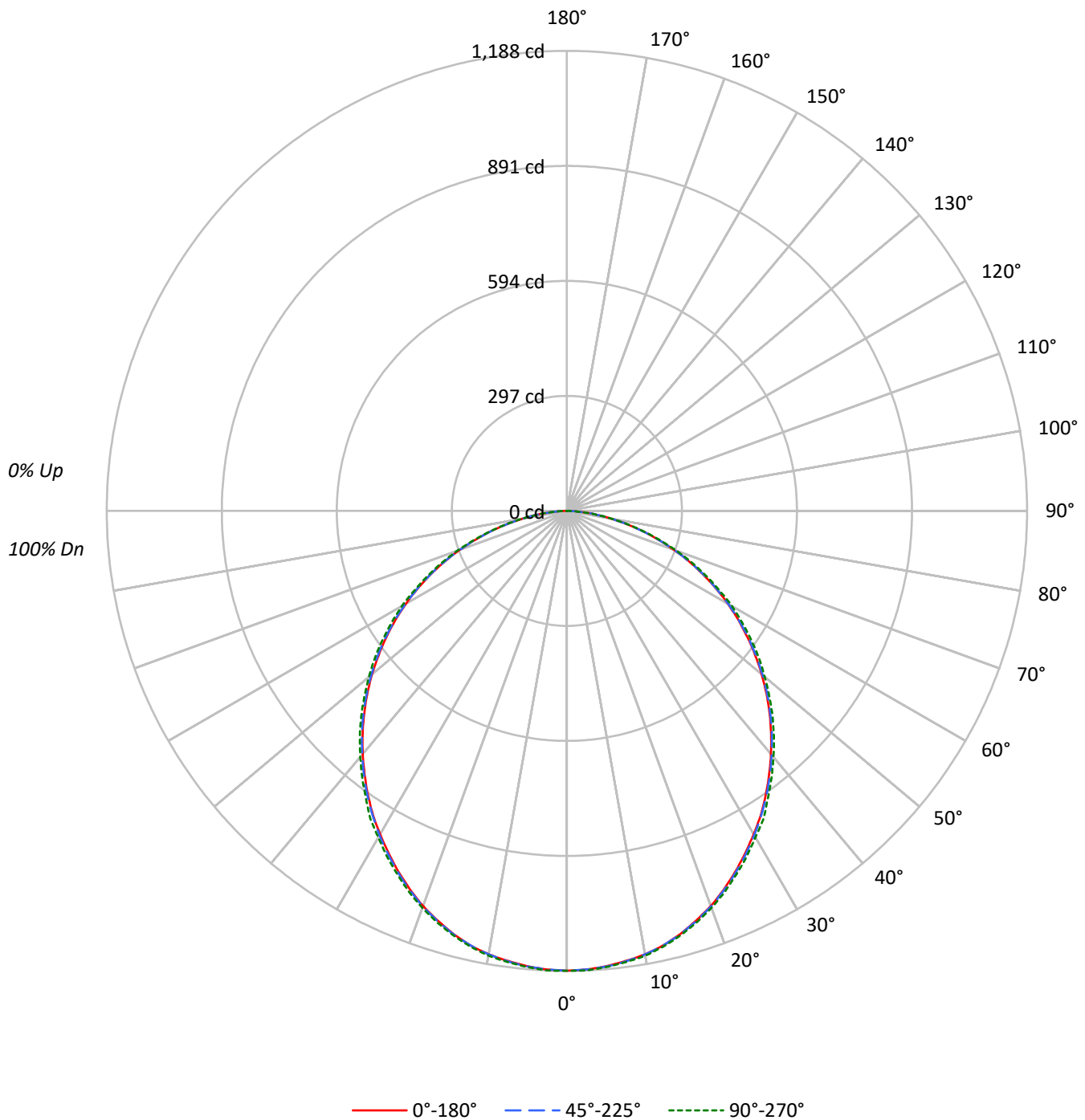
Lumens per Lamp: N/A
Luminaire Lumens: 3208.8 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
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	27	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3196	3196	3196
5°	3187	3190	3194
10°	3177	3178	3187
15°	3151	3153	3162
20°	3110	3113	3125
25°	3053	3061	3075
30°	2996	3006	3025
35°	2941	2949	2972
40°	2879	2889	2915
45°	2816	2828	2858
50°	2748	2761	2792
55°	2670	2683	2727
60°	2582	2592	2651
65°	2469	2477	2523
70°	2317	2319	2370
75°	2106	2099	2147
80°	1810	1802	1833
85°	1405	1380	1389



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.2	3.5
10°-20°	319.2	9.9
20°-30°	475.2	14.8
30°-40°	562.0	17.5
40°-50°	573.7	17.9
50°-60°	512.0	16.0
60°-70°	385.6	12.0
70°-80°	215.1	6.7
80°-90°	53.9	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°	906.6	28.3
0°-40°	1468.6	45.8
0°-60°	2554.2	79.6
0°-90°	3208.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3208.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1188	1188	1188	1188	1188	
5°	1180	1182	1181	1181	1182	112
15°	1131	1132	1132	1133	1135	319
25°	1028	1030	1031	1034	1036	474
35°	895	894	898	901	905	560
45°	740	740	743	747	751	571
55°	569	568	572	576	581	509
65°	388	386	389	392	396	383
75°	203	201	202	203	206	215
85°	46	44	45	44	45	55
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1187.5	1187.5	1187.5	1187.5	1187.5
2.5°	1185.5	1187.5	1185.1	1185.5	1187.8
5°	1179.9	1182.1	1180.9	1181.1	1182.4
7.5°	1172.0	1175.0	1173.3	1173.7	1175.0
10°	1162.7	1164.9	1162.9	1164.2	1166.4
12.5°	1149.4	1150.4	1149.4	1149.9	1152.4
15°	1131.0	1132.2	1131.7	1132.7	1134.9
17.5°	1109.3	1110.8	1110.6	1112.5	1114.2
20°	1086.0	1086.2	1087.2	1089.2	1091.1
22.5°	1058.4	1059.2	1060.2	1062.9	1064.8
25°	1028.4	1029.7	1030.9	1033.6	1035.6
27.5°	996.7	998.0	999.7	1002.6	1005.8
30°	964.3	964.3	967.5	970.4	973.4
32.5°	931.6	930.3	933.3	937.0	944.1
35°	895.4	894.4	897.6	901.1	904.8
37.5°	857.8	857.1	860.8	864.5	867.9
40°	819.7	818.7	822.4	826.1	829.8
42.5°	780.6	780.1	783.6	787.3	791.2
45°	740.0	739.8	743.2	746.9	750.9
47.5°	698.7	698.2	701.7	705.6	709.1
50°	656.5	656.0	659.4	663.3	667.0
52.5°	612.9	612.9	616.1	619.6	625.2
55°	569.2	568.4	571.9	575.8	581.2
57.5°	524.9	523.9	527.1	531.1	536.0
60°	479.7	478.7	481.6	485.6	492.5
62.5°	433.9	432.5	435.4	439.1	443.3
65°	387.7	386.3	389.0	392.4	396.3
67.5°	341.3	339.5	342.2	345.2	348.9
70°	294.5	292.8	294.8	297.7	301.2
72.5°	248.1	246.4	248.1	249.3	253.5
75°	202.6	200.9	201.9	202.8	206.5
77.5°	158.3	156.6	158.6	159.1	161.3
80°	116.8	115.1	116.3	116.5	118.3
82.5°	78.9	77.4	79.2	77.9	79.4
85°	45.5	44.3	44.7	44.3	45.0
87.5°	17.9	17.0	17.2	16.2	16.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)