

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: P835705

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-5LO-20-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835705
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-LD4-5LO-20-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

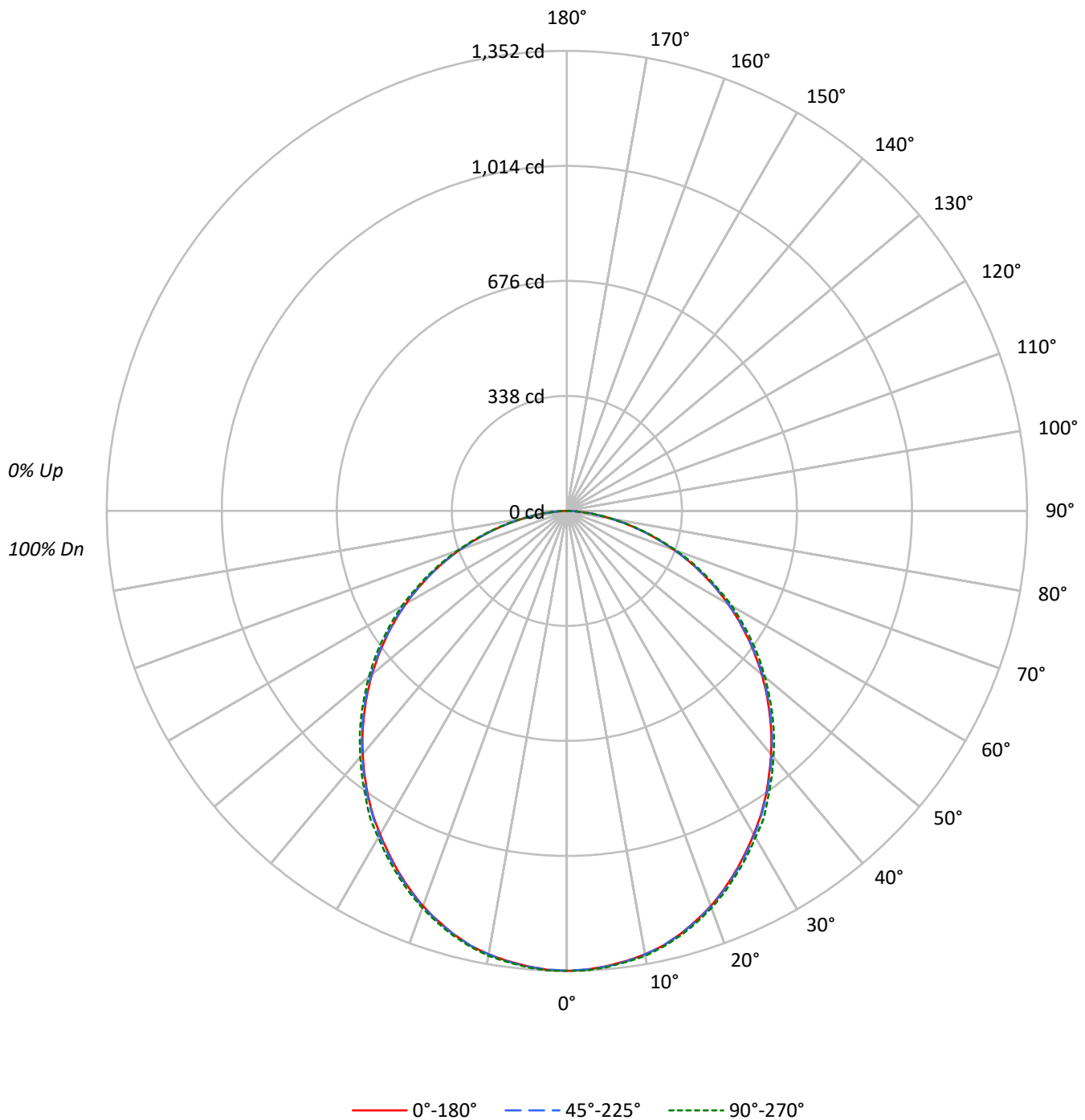
Lumens per Lamp: N/A
Luminaire Lumens: 3652.1 lumens
Efficiency: N/A
Efficacy: 62.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 58.5
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	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°	3637	3637	3637
5°	3628	3630	3635
10°	3616	3617	3627
15°	3586	3589	3599
20°	3540	3544	3556
25°	3475	3484	3500
30°	3410	3421	3443
35°	3348	3356	3383
40°	3277	3288	3318
45°	3205	3219	3252
50°	3128	3142	3178
55°	3039	3054	3103
60°	2939	2950	3017
65°	2810	2819	2872
70°	2637	2640	2697
75°	2398	2388	2444
80°	2060	2052	2086
85°	1599	1572	1581



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.7	3.5
10°-20°	363.3	9.9
20°-30°	540.8	14.8
30°-40°	639.6	17.5
40°-50°	652.9	17.9
50°-60°	582.7	16.0
60°-70°	438.9	12.0
70°-80°	244.8	6.7
80°-90°	61.3	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°	1031.9	28.3
0°-40°	1671.5	45.8
0°-60°	2907.1	79.6
0°-90°	3652.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3652.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1352	1352	1352	1352	1352	
5°	1343	1345	1344	1344	1346	128
15°	1287	1289	1288	1289	1292	363
25°	1170	1172	1173	1176	1179	539
35°	1019	1018	1022	1026	1030	637
45°	842	842	846	850	855	650
55°	648	647	651	655	662	579
65°	441	440	443	447	451	436
75°	231	229	230	231	235	244
85°	52	50	51	50	51	62
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1351.6	1351.6	1351.6	1351.6	1351.6
2.5°	1349.4	1351.6	1348.8	1349.4	1351.9
5°	1342.9	1345.4	1344.0	1344.3	1345.7
7.5°	1334.0	1337.3	1335.4	1335.9	1337.3
10°	1323.3	1325.8	1323.6	1325.0	1327.5
12.5°	1308.2	1309.3	1308.2	1308.8	1311.6
15°	1287.2	1288.6	1288.1	1289.2	1291.7
17.5°	1262.6	1264.3	1264.0	1266.2	1268.2
20°	1236.0	1236.3	1237.4	1239.7	1241.9
22.5°	1204.7	1205.5	1206.6	1209.7	1212.0
25°	1170.5	1171.9	1173.3	1176.4	1178.7
27.5°	1134.4	1135.8	1137.8	1141.2	1144.8
30°	1097.5	1097.5	1101.1	1104.5	1107.9
32.5°	1060.3	1058.9	1062.2	1066.4	1074.6
35°	1019.2	1018.0	1021.7	1025.6	1029.8
37.5°	976.3	975.5	979.7	983.9	987.8
40°	933.0	931.8	936.0	940.2	944.4
42.5°	888.5	887.9	891.8	896.0	900.5
45°	842.3	842.0	845.9	850.1	854.6
47.5°	795.3	794.7	798.6	803.1	807.0
50°	747.2	746.6	750.5	755.0	759.2
52.5°	697.6	697.6	701.3	705.2	711.6
55°	647.8	647.0	650.9	655.4	661.5
57.5°	597.4	596.3	600.0	604.4	610.0
60°	546.0	544.8	548.2	552.7	560.5
62.5°	493.9	492.2	495.6	499.8	504.5
65°	441.3	439.6	442.7	446.6	451.1
67.5°	388.4	386.4	389.5	392.9	397.1
70°	335.2	333.3	335.5	338.9	342.8
72.5°	282.4	280.4	282.4	283.8	288.5
75°	230.6	228.6	229.7	230.9	235.1
77.5°	180.2	178.3	180.5	181.1	183.6
80°	132.9	131.0	132.4	132.6	134.6
82.5°	89.8	88.1	90.1	88.7	90.4
85°	51.8	50.4	50.9	50.4	51.2
87.5°	20.4	19.3	19.6	18.5	18.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)