

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: P835789

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-3LO-50-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835789
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-50-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

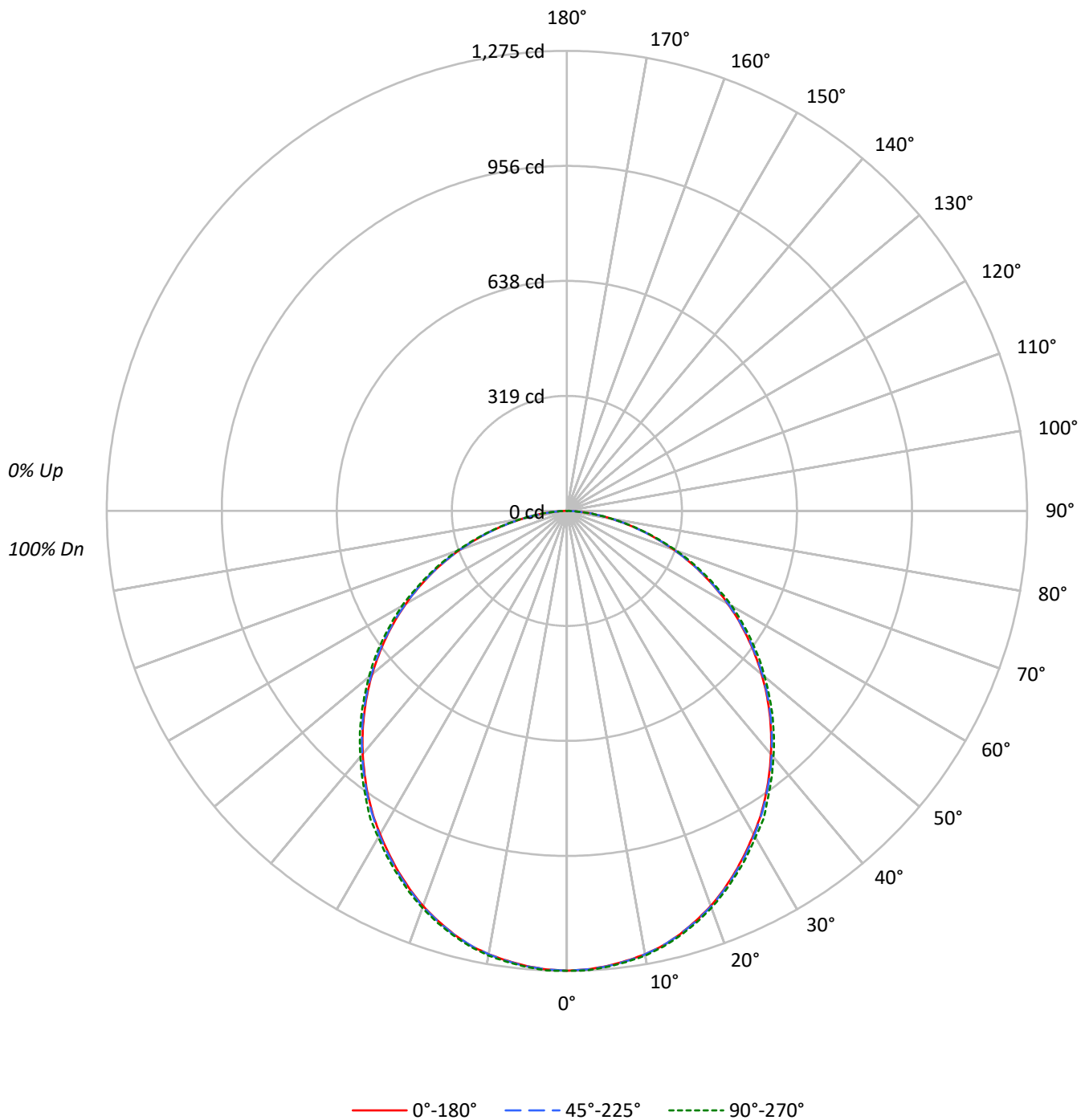
Lumens per Lamp: N/A
Luminaire Lumens: 3443.6 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

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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	27	27	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3429	3429	3429
5°	3420	3423	3428
10°	3410	3410	3420
15°	3381	3383	3393
20°	3337	3341	3353
25°	3277	3285	3300
30°	3215	3226	3246
35°	3157	3165	3190
40°	3090	3100	3128
45°	3022	3035	3067
50°	2949	2963	2997
55°	2866	2879	2926
60°	2771	2782	2844
65°	2649	2658	2708
70°	2487	2489	2543
75°	2260	2252	2304
80°	1942	1934	1967
85°	1507	1482	1491

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.4	3.5
10°-20°	342.6	9.9
20°-30°	510.0	14.8
30°-40°	603.1	17.5
40°-50°	615.7	17.9
50°-60°	549.4	16.0
60°-70°	413.8	12.0
70°-80°	230.8	6.7
80°-90°	57.8	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°	972.9	28.3
0°-40°	1576.0	45.8
0°-60°	2741.1	79.6
0°-90°	3443.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3443.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1274	1274	1274	1274	1274	
5°	1266	1269	1267	1268	1269	120
15°	1214	1215	1214	1216	1218	342
25°	1104	1105	1106	1109	1111	508
35°	961	960	963	967	971	601
45°	794	794	798	802	806	613
55°	611	610	614	618	624	546
65°	416	414	417	421	425	412
75°	217	216	217	218	222	230
85°	49	48	48	48	48	59
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1274.4	1274.4	1274.4	1274.4	1274.4
2.5°	1272.3	1274.4	1271.8	1272.3	1274.7
5°	1266.2	1268.6	1267.3	1267.5	1268.9
7.5°	1257.8	1261.0	1259.1	1259.6	1261.0
10°	1247.8	1250.1	1248.0	1249.3	1251.7
12.5°	1233.5	1234.6	1233.5	1234.0	1236.7
15°	1213.7	1215.0	1214.5	1215.6	1217.9
17.5°	1190.5	1192.1	1191.8	1193.9	1195.8
20°	1165.4	1165.7	1166.8	1168.9	1171.0
22.5°	1135.9	1136.7	1137.7	1140.6	1142.7
25°	1103.7	1105.0	1106.3	1109.2	1111.3
27.5°	1069.7	1071.0	1072.8	1076.0	1079.4
30°	1034.8	1034.8	1038.3	1041.4	1044.6
32.5°	999.7	998.4	1001.6	1005.5	1013.2
35°	961.0	959.9	963.3	967.0	971.0
37.5°	920.6	919.8	923.7	927.7	931.4
40°	879.7	878.6	882.6	886.5	890.5
42.5°	837.7	837.2	840.9	844.9	849.1
45°	794.2	793.9	797.6	801.6	805.8
47.5°	749.9	749.3	753.0	757.3	761.0
50°	704.5	704.0	707.7	711.9	715.8
52.5°	657.8	657.8	661.2	664.9	671.0
55°	610.8	610.0	613.7	617.9	623.7
57.5°	563.3	562.3	565.7	569.9	575.2
60°	514.8	513.7	516.9	521.1	528.5
62.5°	465.7	464.1	467.3	471.2	475.7
65°	416.1	414.5	417.4	421.1	425.3
67.5°	366.2	364.4	367.3	370.4	374.4
70°	316.1	314.2	316.4	319.5	323.2
72.5°	266.2	264.4	266.2	267.5	272.0
75°	217.4	215.6	216.6	217.7	221.6
77.5°	169.9	168.1	170.2	170.7	173.1
80°	125.3	123.5	124.8	125.1	126.9
82.5°	84.7	83.1	85.0	83.6	85.2
85°	48.8	47.5	48.0	47.5	48.3
87.5°	19.3	18.2	18.5	17.4	17.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)