

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: P834479

Luminaire Tested: **ORLG-12-4-INS-OPL-LD4-1STD-35-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834479
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-LD4-1STD-35-120-EDD-90
Description: 1FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

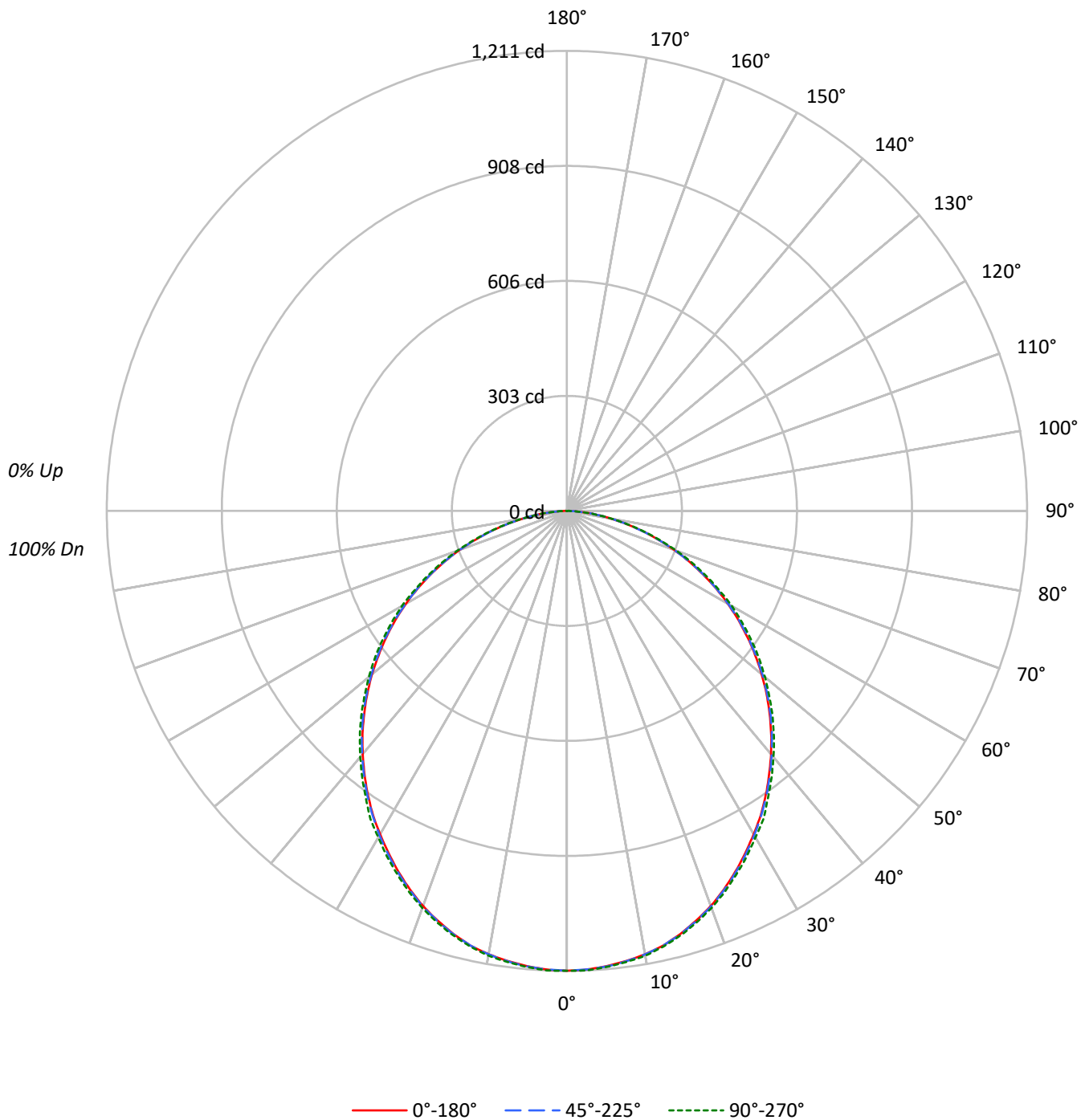
Lumens per Lamp: N/A
Luminaire Lumens: 3271.1 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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°	3258	3258	3258
5°	3249	3252	3256
10°	3239	3239	3249
15°	3212	3214	3223
20°	3170	3174	3185
25°	3113	3120	3135
30°	3054	3064	3083
35°	2999	3006	3030
40°	2935	2945	2971
45°	2871	2884	2913
50°	2802	2814	2847
55°	2722	2735	2780
60°	2632	2643	2702
65°	2517	2525	2572
70°	2363	2364	2415
75°	2147	2140	2189
80°	1846	1838	1869
85°	1433	1408	1417

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.4	3.5
10°-20°	325.4	9.9
20°-30°	484.4	14.8
30°-40°	572.9	17.5
40°-50°	584.8	17.9
50°-60°	521.9	16.0
60°-70°	393.1	12.0
70°-80°	219.2	6.7
80°-90°	54.9	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°	924.2	28.3
0°-40°	1497.1	45.8
0°-60°	2603.8	79.6
0°-90°	3271.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3271.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1211	1211	1211	1211	1211	
5°	1203	1205	1204	1204	1205	114
15°	1153	1154	1154	1155	1157	325
25°	1048	1050	1051	1054	1056	483
35°	913	912	915	919	922	571
45°	754	754	758	761	765	582
55°	580	580	583	587	592	519
65°	395	394	396	400	404	391
75°	206	205	206	207	210	219
85°	46	45	46	45	46	56
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1210.6	1210.6	1210.6	1210.6	1210.6
2.5°	1208.6	1210.6	1208.1	1208.6	1210.8
5°	1202.8	1205.0	1203.8	1204.0	1205.3
7.5°	1194.8	1197.8	1196.0	1196.5	1197.8
10°	1185.2	1187.5	1185.5	1186.8	1189.0
12.5°	1171.7	1172.7	1171.7	1172.2	1174.7
15°	1152.9	1154.2	1153.7	1154.7	1156.9
17.5°	1130.9	1132.4	1132.1	1134.1	1135.9
20°	1107.1	1107.3	1108.3	1110.3	1112.3
22.5°	1079.0	1079.7	1080.7	1083.5	1085.5
25°	1048.4	1049.7	1050.9	1053.7	1055.7
27.5°	1016.1	1017.3	1019.1	1022.1	1025.3
30°	983.0	983.0	986.2	989.3	992.3
32.5°	949.7	948.4	951.4	955.2	962.4
35°	912.8	911.8	915.1	918.6	922.3
37.5°	874.5	873.7	877.5	881.2	884.7
40°	835.6	834.6	838.4	842.1	845.9
42.5°	795.8	795.3	798.8	802.5	806.5
45°	754.4	754.2	757.7	761.4	765.4
47.5°	712.3	711.8	715.3	719.3	722.8
50°	669.2	668.7	672.2	676.2	680.0
52.5°	624.8	624.8	628.1	631.6	637.4
55°	580.2	579.5	583.0	587.0	592.5
57.5°	535.1	534.1	537.4	541.4	546.4
60°	489.0	488.0	491.0	495.0	502.0
62.5°	442.4	440.9	443.9	447.6	451.9
65°	395.3	393.7	396.5	400.0	404.0
67.5°	347.9	346.1	348.9	351.9	355.7
70°	300.3	298.5	300.5	303.5	307.0
72.5°	252.9	251.1	252.9	254.1	258.4
75°	206.5	204.8	205.8	206.8	210.5
77.5°	161.4	159.7	161.7	162.2	164.4
80°	119.1	117.3	118.6	118.8	120.6
82.5°	80.5	78.9	80.7	79.5	81.0
85°	46.4	45.1	45.6	45.1	45.9
87.5°	18.3	17.3	17.5	16.5	16.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)