

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: P834398

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

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834398
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-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

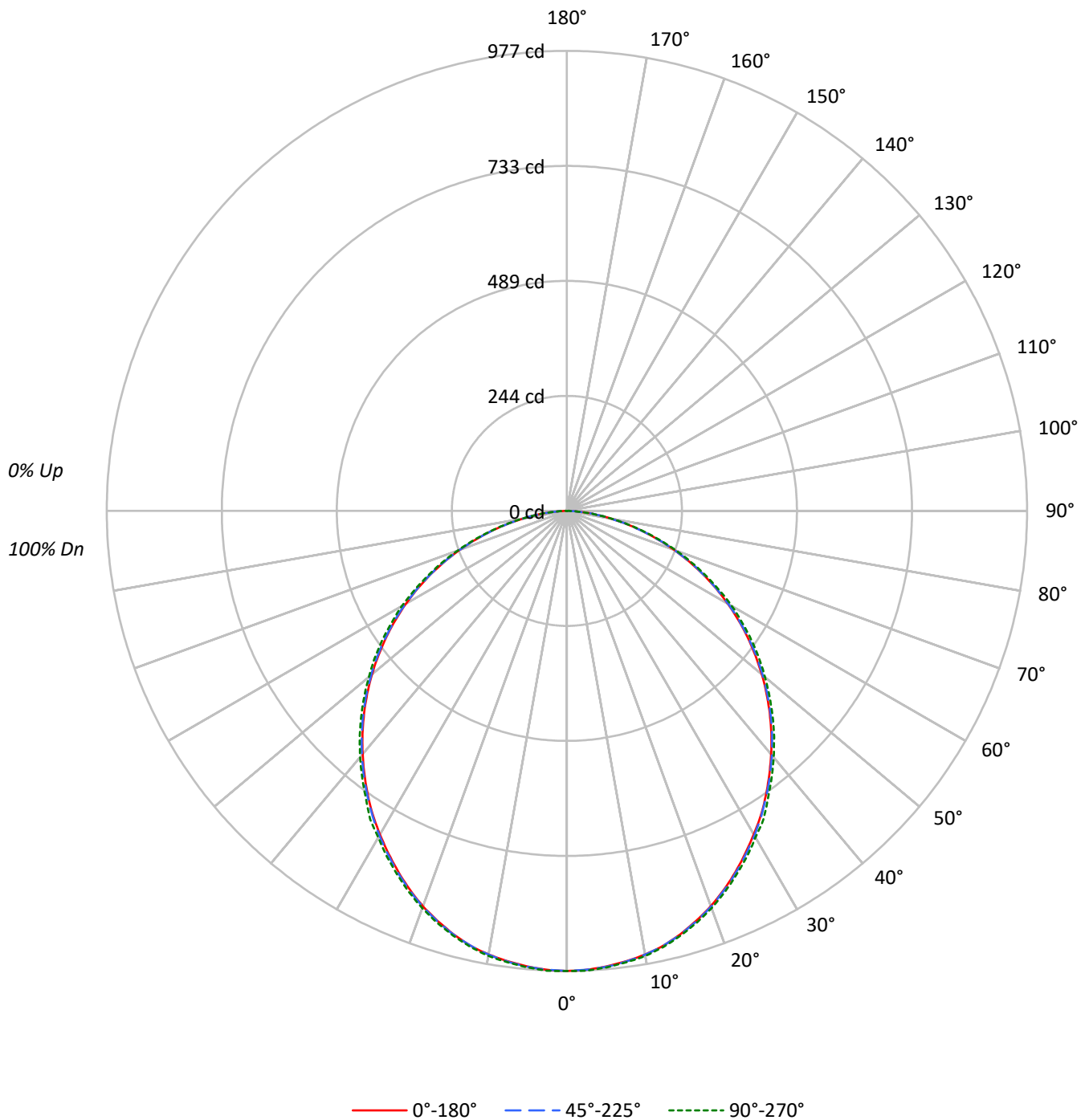
Lumens per Lamp: N/A
Luminaire Lumens: 2640.5 lumens
Efficiency: N/A
Efficacy: 79.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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

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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°	2630	2630	2630
5°	2623	2625	2628
10°	2614	2615	2623
15°	2593	2595	2602
20°	2559	2562	2571
25°	2513	2519	2530
30°	2466	2474	2489
35°	2420	2427	2446
40°	2369	2377	2399
45°	2318	2328	2351
50°	2262	2272	2298
55°	2198	2208	2244
60°	2124	2133	2181
65°	2032	2038	2076
70°	1907	1909	1950
75°	1733	1727	1766
80°	1489	1483	1508
85°	1155	1136	1142

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.3	3.5
10°-20°	262.7	9.9
20°-30°	391.0	14.8
30°-40°	462.4	17.5
40°-50°	472.1	17.9
50°-60°	421.3	16.0
60°-70°	317.3	12.0
70°-80°	177.0	6.7
80°-90°	44.3	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°	746.1	28.3
0°-40°	1208.5	45.8
0°-60°	2101.9	79.6
0°-90°	2640.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2640.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	977	977	977	977	977	
5°	971	973	972	972	973	92
15°	931	932	931	932	934	262
25°	846	847	848	851	852	390
35°	737	736	739	742	744	461
45°	609	609	612	615	618	470
55°	468	468	471	474	478	419
65°	319	318	320	323	326	316
75°	167	165	166	167	170	177
85°	37	36	37	36	37	45
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	977.2	977.2	977.2	977.2	977.2
2.5°	975.6	977.2	975.2	975.6	977.4
5°	970.9	972.8	971.7	971.9	973.0
7.5°	964.5	966.9	965.5	965.9	966.9
10°	956.8	958.6	957.0	958.0	959.8
12.5°	945.8	946.7	945.8	946.2	948.3
15°	930.7	931.7	931.3	932.1	933.9
17.5°	912.9	914.1	913.9	915.5	916.9
20°	893.6	893.8	894.7	896.3	897.9
22.5°	871.0	871.6	872.4	874.6	876.2
25°	846.3	847.3	848.3	850.6	852.2
27.5°	820.2	821.2	822.6	825.1	827.7
30°	793.5	793.5	796.1	798.6	801.0
32.5°	766.6	765.6	768.0	771.0	776.9
35°	736.8	736.0	738.7	741.5	744.5
37.5°	705.9	705.3	708.3	711.4	714.2
40°	674.5	673.7	676.8	679.8	682.8
42.5°	642.4	642.0	644.8	647.8	651.1
45°	609.0	608.8	611.6	614.6	617.9
47.5°	575.0	574.6	577.4	580.7	583.5
50°	540.2	539.8	542.6	545.9	548.9
52.5°	504.4	504.4	507.0	509.8	514.5
55°	468.4	467.8	470.6	473.8	478.3
57.5°	432.0	431.1	433.8	437.0	441.1
60°	394.7	393.9	396.3	399.6	405.2
62.5°	357.1	355.9	358.3	361.3	364.8
65°	319.1	317.8	320.1	322.9	326.1
67.5°	280.8	279.4	281.6	284.1	287.1
70°	242.4	241.0	242.6	245.0	247.8
72.5°	204.1	202.7	204.1	205.2	208.6
75°	166.7	165.3	166.1	166.9	169.9
77.5°	130.3	128.9	130.5	130.9	132.7
80°	96.1	94.7	95.7	95.9	97.3
82.5°	64.9	63.7	65.1	64.1	65.3
85°	37.4	36.4	36.8	36.4	37.0
87.5°	14.8	14.0	14.2	13.4	13.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)