

Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P835765

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-1LO-40-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835765
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-LD4-1LO-40-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

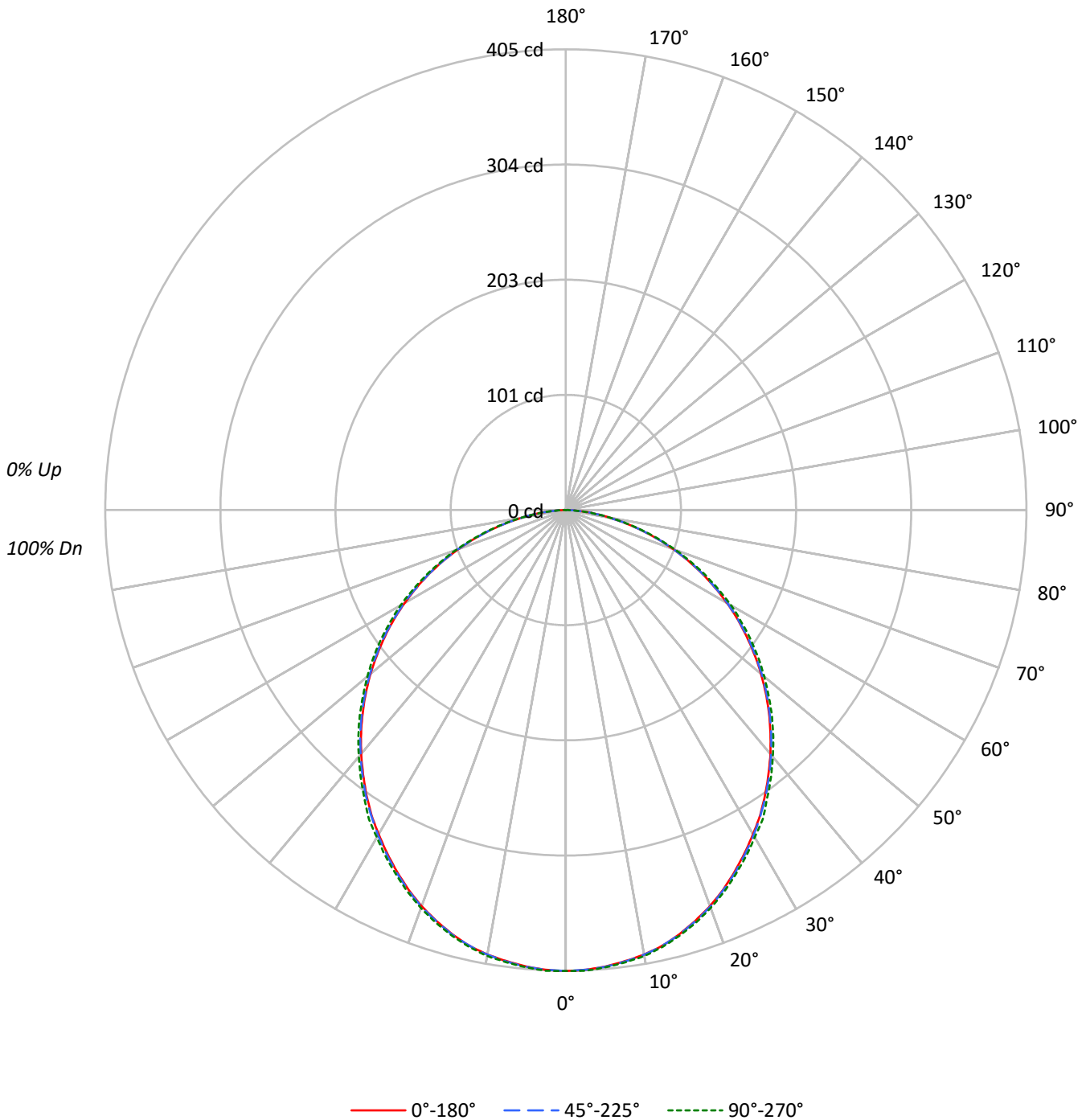
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1095.2 lumens
Efficiency: N/A
Efficacy: 93.6 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): 11.7
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



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	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	86	84
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	76	72	72	72	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	61	61	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	53	53	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	46	46	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	40	40	40	38
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	36	36	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	32	32	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	29	29	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	26	26	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1091	1091	1091
5°	1088	1089	1090
10°	1084	1085	1088
15°	1075	1076	1079
20°	1061	1063	1066
25°	1042	1045	1049
30°	1023	1026	1032
35°	1004	1007	1014
40°	983	986	995
45°	961	965	975
50°	938	942	953
55°	912	916	931
60°	881	885	905
65°	842	846	862
70°	791	792	809
75°	718	716	733
80°	618	615	626
85°	479	472	475



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.3	3.5
10°-20°	108.9	9.9
20°-30°	162.2	14.8
30°-40°	191.8	17.5
40°-50°	195.8	17.9
50°-60°	174.8	16.0
60°-70°	131.6	12.0
70°-80°	73.4	6.7
80°-90°	18.4	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°	309.4	28.3
0°-40°	501.2	45.8
0°-60°	871.8	79.6
0°-90°	1095.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1095.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	405	405	405	405	405	
5°	403	404	403	403	404	38
15°	386	386	386	387	387	109
25°	351	351	352	353	353	162
35°	306	305	306	308	309	191
45°	253	252	254	255	256	195
55°	194	194	195	196	198	174
65°	132	132	133	134	135	131
75°	69	69	69	69	70	73
85°	16	15	15	15	15	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	405.3	405.3	405.3	405.3	405.3
2.5°	404.6	405.3	404.5	404.6	405.4
5°	402.7	403.5	403.0	403.1	403.5
7.5°	400.0	401.0	400.4	400.6	401.0
10°	396.8	397.6	396.9	397.3	398.1
12.5°	392.3	392.6	392.3	392.5	393.3
15°	386.0	386.4	386.3	386.6	387.3
17.5°	378.6	379.1	379.0	379.7	380.3
20°	370.6	370.7	371.1	371.7	372.4
22.5°	361.3	361.5	361.8	362.8	363.4
25°	351.0	351.4	351.9	352.8	353.4
27.5°	340.2	340.6	341.2	342.2	343.3
30°	329.1	329.1	330.2	331.2	332.2
32.5°	318.0	317.5	318.5	319.8	322.2
35°	305.6	305.3	306.4	307.5	308.8
37.5°	292.8	292.5	293.8	295.0	296.2
40°	279.8	279.4	280.7	282.0	283.2
42.5°	266.4	266.3	267.4	268.7	270.0
45°	252.6	252.5	253.7	254.9	256.3
47.5°	238.5	238.3	239.5	240.8	242.0
50°	224.1	223.9	225.1	226.4	227.7
52.5°	209.2	209.2	210.3	211.5	213.4
55°	194.3	194.0	195.2	196.5	198.4
57.5°	179.2	178.8	179.9	181.3	182.9
60°	163.7	163.4	164.4	165.7	168.1
62.5°	148.1	147.6	148.6	149.9	151.3
65°	132.3	131.8	132.8	133.9	135.3
67.5°	116.5	115.9	116.8	117.8	119.1
70°	100.5	99.9	100.6	101.6	102.8
72.5°	84.7	84.1	84.7	85.1	86.5
75°	69.1	68.6	68.9	69.2	70.5
77.5°	54.0	53.5	54.1	54.3	55.0
80°	39.9	39.3	39.7	39.8	40.4
82.5°	26.9	26.4	27.0	26.6	27.1
85°	15.5	15.1	15.3	15.1	15.4
87.5°	6.1	5.8	5.9	5.5	5.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)