

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: P835082

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-1STD-30-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835082
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-4-INS-OPL-LD4-1STD-30-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

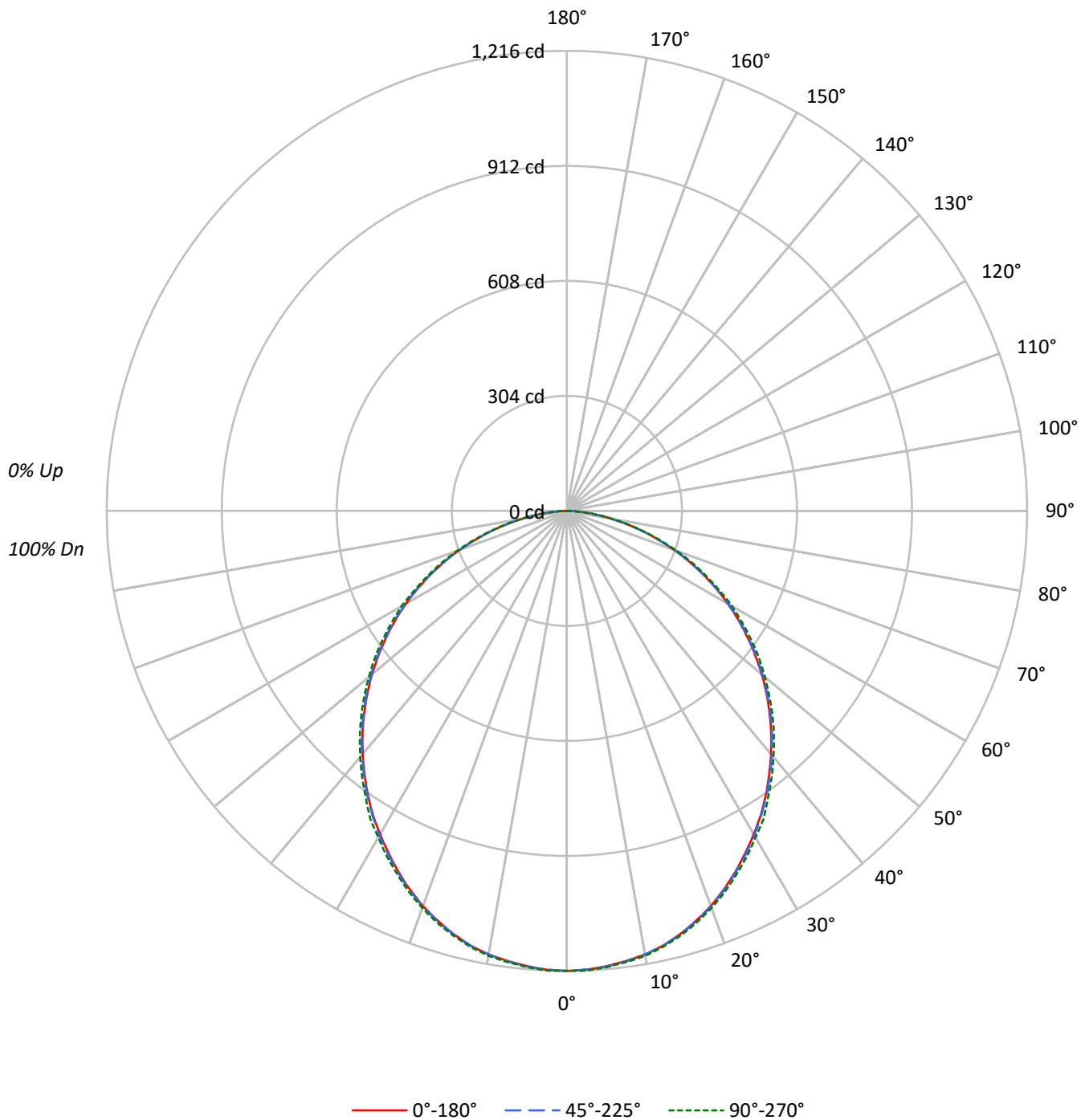
Lumens per Lamp: N/A
Luminaire Lumens: 3285.2 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	100	96	106	102	98	95	98	94	92		94	91	89		90
2	99	91	84	78	96	89	83	77	85	80	76		82	78	74		79
3	90	80	72	65	88	78	71	65	75	69	64		73	67	62		70
4	83	71	62	55	80	69	61	55	67	60	54		65	58	53		62
5	76	63	54	48	74	62	54	47	60	53	47		58	52	46		56
6	70	57	48	42	68	56	48	42	54	47	41		53	46	41		51
7	65	52	43	37	64	51	43	37	49	42	36		48	41	36		47
8	61	47	39	33	59	47	38	33	45	38	33		44	37	32		43
9	57	43	35	30	55	43	35	30	42	34	29		41	34	29		40
10	53	40	32	27	52	40	32	27	39	32	27		38	31	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1636	1636	1636
5°	1632	1633	1635
10°	1626	1627	1631
15°	1613	1614	1618
20°	1592	1594	1600
25°	1563	1567	1574
30°	1534	1539	1548
35°	1506	1509	1521
40°	1474	1479	1492
45°	1442	1448	1463
50°	1407	1413	1429
55°	1367	1373	1396
60°	1322	1327	1357
65°	1264	1268	1292
70°	1186	1187	1213
75°	1078	1075	1099
80°	927	923	938
85°	719	707	712

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.9	3.5
10°-20°	326.8	9.9
20°-30°	486.5	14.8
30°-40°	575.3	17.5
40°-50°	587.3	17.9
50°-60°	524.2	16.0
60°-70°	394.8	12.0
70°-80°	220.2	6.7
80°-90°	55.2	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°	928.2	28.3
0°-40°	1503.5	45.8
0°-60°	2615.0	79.6
0°-90°	3285.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3285.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1216	1216	1216	1216	1216	
5°	1208	1210	1209	1209	1210	115
15°	1158	1159	1159	1160	1162	326
25°	1053	1054	1055	1058	1060	485
35°	917	916	919	922	926	573
45°	758	757	761	765	769	584
55°	583	582	586	590	595	521
65°	397	395	398	402	406	393
75°	207	206	207	208	211	220
85°	47	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°	1215.8	1215.8	1215.8	1215.8	1215.8
2.5°	1213.8	1215.8	1213.3	1213.8	1216.0
5°	1208.0	1210.2	1209.0	1209.2	1210.5
7.5°	1199.9	1202.9	1201.2	1201.7	1202.9
10°	1190.4	1192.6	1190.6	1191.9	1194.1
12.5°	1176.8	1177.8	1176.8	1177.3	1179.8
15°	1157.9	1159.1	1158.6	1159.6	1161.9
17.5°	1135.7	1137.2	1137.0	1139.0	1140.8
20°	1111.8	1112.1	1113.1	1115.1	1117.1
22.5°	1083.6	1084.4	1085.4	1088.2	1090.2
25°	1052.9	1054.2	1055.4	1058.2	1060.2
27.5°	1020.4	1021.7	1023.5	1026.5	1029.8
30°	987.2	987.2	990.5	993.5	996.5
32.5°	953.7	952.5	955.5	959.3	966.6
35°	916.7	915.7	919.0	922.5	926.3
37.5°	878.2	877.5	881.2	885.0	888.5
40°	839.2	838.2	842.0	845.8	849.5
42.5°	799.2	798.7	802.2	806.0	810.0
45°	757.7	757.4	760.9	764.7	768.7
47.5°	715.4	714.9	718.4	722.4	725.9
50°	672.1	671.6	675.1	679.1	682.9
52.5°	627.5	627.5	630.8	634.3	640.1
55°	582.7	582.0	585.5	589.5	595.0
57.5°	537.4	536.4	539.7	543.7	548.7
60°	491.1	490.1	493.1	497.1	504.2
62.5°	444.3	442.8	445.8	449.6	453.8
65°	397.0	395.4	398.2	401.7	405.8
67.5°	349.4	347.6	350.4	353.4	357.2
70°	301.6	299.8	301.8	304.8	308.3
72.5°	254.0	252.2	254.0	255.2	259.5
75°	207.4	205.6	206.7	207.7	211.4
77.5°	162.1	160.3	162.4	162.9	165.1
80°	119.6	117.8	119.1	119.3	121.1
82.5°	80.8	79.3	81.1	79.8	81.3
85°	46.6	45.3	45.8	45.3	46.1
87.5°	18.4	17.4	17.6	16.6	16.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)