

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: P835608

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-2HI-27-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835608
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-LD4-2HI-27-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

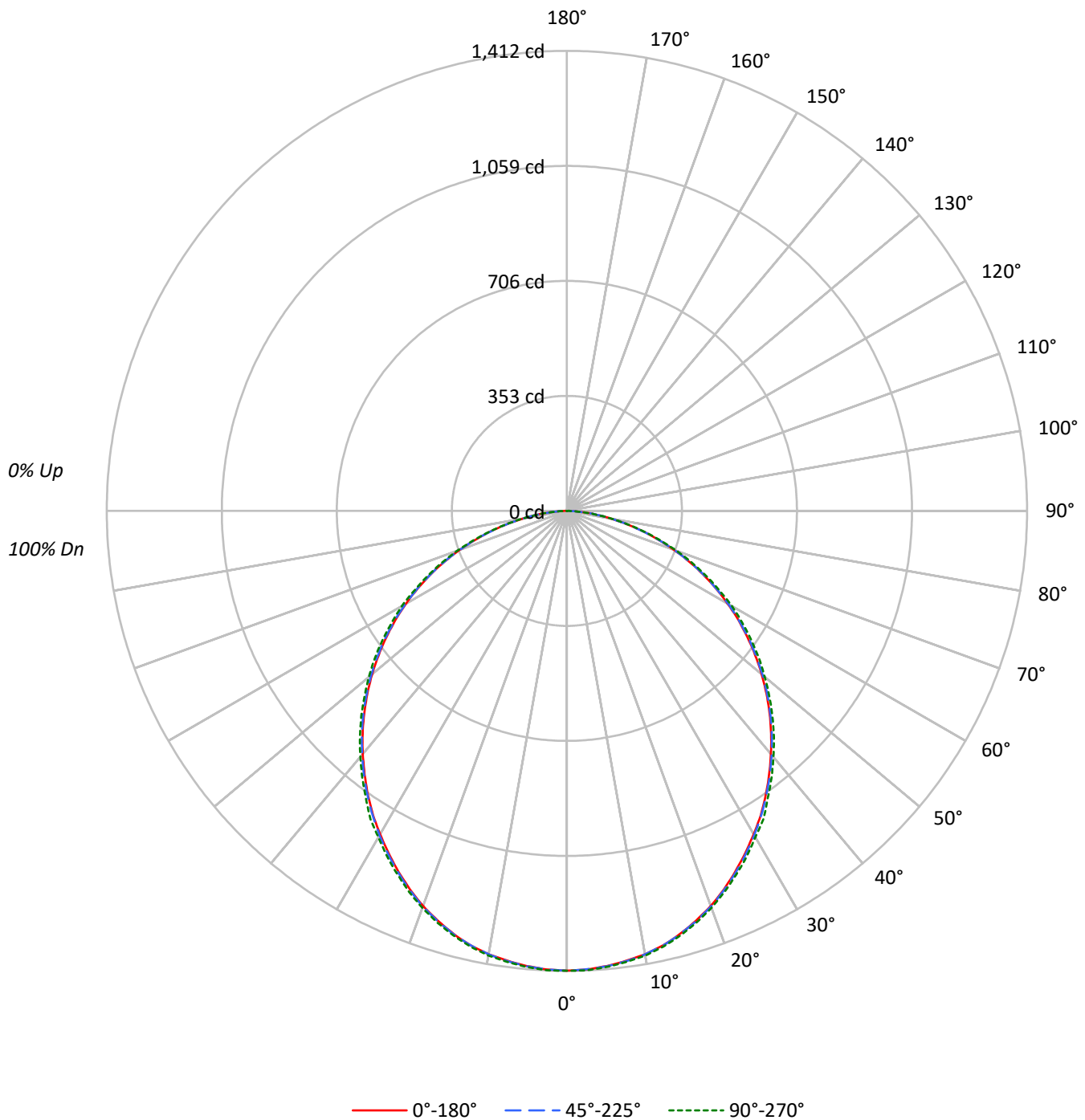
Lumens per Lamp: N/A
Luminaire Lumens: 3813.3 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 44
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	26	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3798	3798	3798
5°	3788	3791	3796
10°	3775	3776	3788
15°	3744	3747	3757
20°	3696	3700	3713
25°	3629	3638	3654
30°	3561	3572	3594
35°	3496	3504	3532
40°	3422	3433	3464
45°	3347	3362	3396
50°	3266	3280	3319
55°	3173	3188	3240
60°	3068	3081	3150
65°	2934	2943	2999
70°	2754	2756	2816
75°	2504	2494	2551
80°	2151	2142	2177
85°	1670	1643	1652

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.4	3.5
10°-20°	379.3	9.9
20°-30°	564.7	14.8
30°-40°	667.8	17.5
40°-50°	681.8	17.9
50°-60°	608.4	16.0
60°-70°	458.3	12.0
70°-80°	255.6	6.7
80°-90°	64.0	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°	1077.4	28.3
0°-40°	1745.2	45.8
0°-60°	3035.4	79.6
0°-90°	3813.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3813.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1411	1411	1411	1411	1411	
5°	1402	1405	1403	1404	1405	133
15°	1344	1346	1345	1346	1349	379
25°	1222	1224	1225	1228	1231	563
35°	1064	1063	1067	1071	1075	665
45°	880	879	883	888	892	678
55°	676	676	680	684	691	605
65°	461	459	462	466	471	456
75°	241	239	240	241	245	255
85°	54	53	53	53	54	65
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1411.2	1411.2	1411.2	1411.2	1411.2
2.5°	1408.9	1411.2	1408.3	1408.9	1411.5
5°	1402.2	1404.8	1403.3	1403.6	1405.1
7.5°	1392.8	1396.3	1394.3	1394.9	1396.3
10°	1381.7	1384.3	1382.0	1383.5	1386.1
12.5°	1365.9	1367.1	1365.9	1366.5	1369.4
15°	1344.0	1345.5	1344.9	1346.1	1348.7
17.5°	1318.3	1320.1	1319.8	1322.1	1324.2
20°	1290.6	1290.8	1292.0	1294.3	1296.7
22.5°	1257.8	1258.7	1259.9	1263.1	1265.4
25°	1222.2	1223.6	1225.1	1228.3	1230.7
27.5°	1184.5	1186.0	1188.0	1191.5	1195.3
30°	1145.9	1145.9	1149.7	1153.2	1156.7
32.5°	1107.1	1105.6	1109.1	1113.5	1122.0
35°	1064.1	1062.9	1066.7	1070.8	1075.2
37.5°	1019.4	1018.5	1022.9	1027.3	1031.4
40°	974.1	973.0	977.3	981.7	986.1
42.5°	927.7	927.1	931.2	935.6	940.2
45°	879.5	879.2	883.3	887.6	892.3
47.5°	830.4	829.8	833.9	838.6	842.6
50°	780.1	779.5	783.6	788.3	792.7
52.5°	728.4	728.4	732.2	736.3	743.0
55°	676.4	675.5	679.6	684.3	690.7
57.5°	623.8	622.6	626.4	631.1	636.9
60°	570.0	568.9	572.4	577.1	585.2
62.5°	515.7	513.9	517.4	521.8	526.8
65°	460.8	459.0	462.2	466.3	471.0
67.5°	405.5	403.5	406.7	410.2	414.6
70°	350.0	348.0	350.3	353.8	357.9
72.5°	294.8	292.8	294.8	296.3	301.2
75°	240.8	238.7	239.9	241.0	245.4
77.5°	188.2	186.1	188.5	189.0	191.7
80°	138.8	136.7	138.2	138.5	140.5
82.5°	93.8	92.0	94.1	92.6	94.4
85°	54.1	52.6	53.2	52.6	53.5
87.5°	21.3	20.2	20.5	19.3	19.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)