

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: P835662

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-2HI-40-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835662
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-40-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

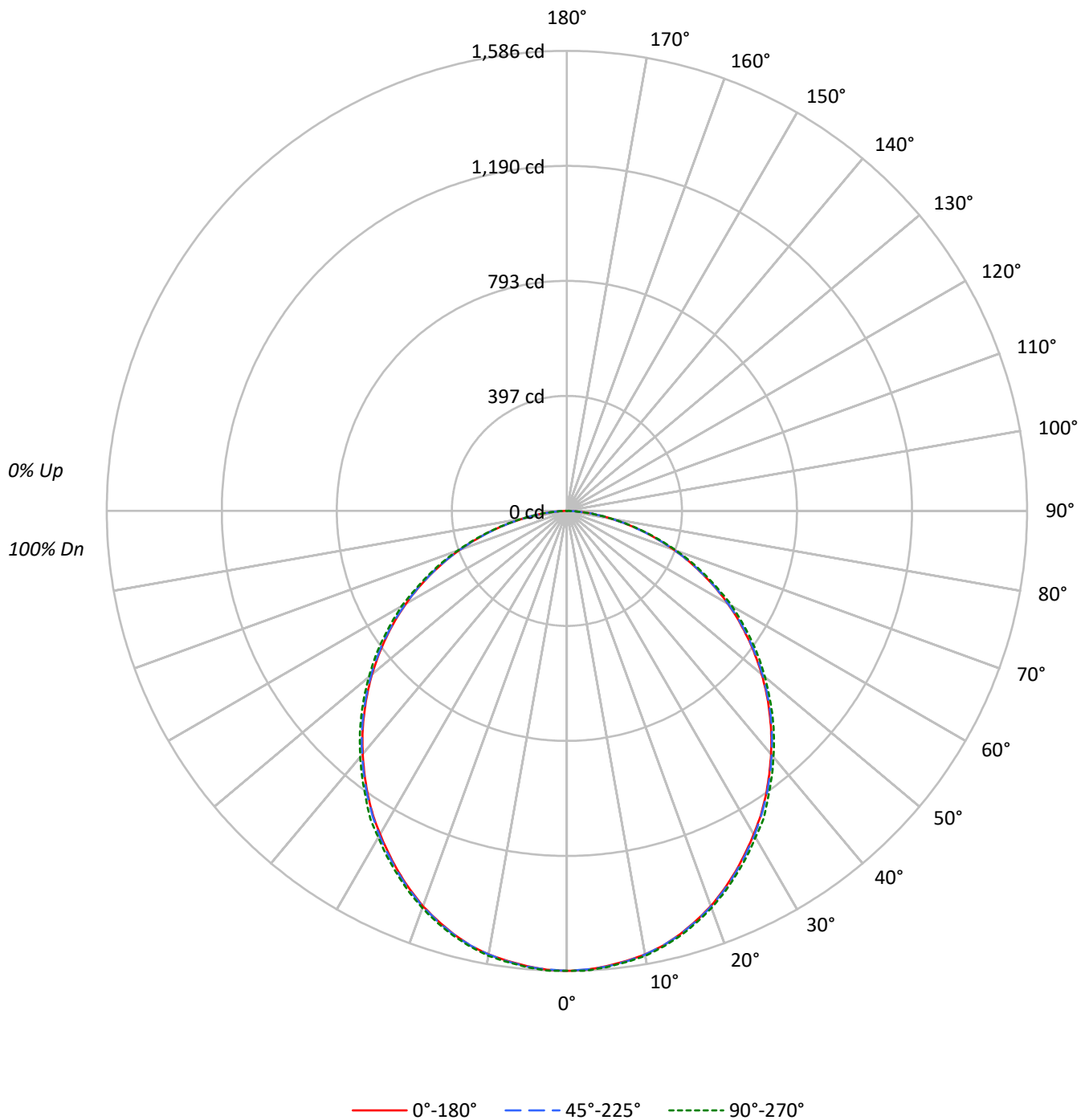
Lumens per Lamp: N/A
Luminaire Lumens: 4284.6 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

1121 Highway 74 South

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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		0
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°	4267	4267	4267
5°	4256	4259	4264
10°	4242	4243	4256
15°	4207	4210	4222
20°	4153	4157	4172
25°	4077	4087	4106
30°	4001	4014	4039
35°	3928	3937	3969
40°	3845	3857	3892
45°	3761	3777	3816
50°	3669	3686	3729
55°	3566	3582	3641
60°	3447	3461	3539
65°	3296	3307	3370
70°	3094	3097	3164
75°	2812	2802	2868
80°	2416	2407	2447
85°	1874	1843	1856

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.8	3.5
10°-20°	426.2	9.9
20°-30°	634.5	14.8
30°-40°	750.4	17.5
40°-50°	766.0	17.9
50°-60°	683.6	16.0
60°-70°	514.9	12.0
70°-80°	287.1	6.7
80°-90°	71.9	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°	1210.6	28.3
0°-40°	1960.9	45.8
0°-60°	3410.6	79.6
0°-90°	4284.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4284.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1586	1586	1586	1586	1586	
5°	1576	1578	1577	1577	1579	150
15°	1510	1512	1511	1512	1515	426
25°	1373	1375	1376	1380	1383	633
35°	1196	1194	1199	1203	1208	748
45°	988	988	992	997	1003	762
55°	760	759	764	769	776	679
65°	518	516	519	524	529	512
75°	270	268	270	271	276	287
85°	61	59	60	59	60	73
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1585.6	1585.6	1585.6	1585.6	1585.6
2.5°	1583.0	1585.6	1582.4	1583.0	1586.0
5°	1575.5	1578.4	1576.8	1577.1	1578.7
7.5°	1565.0	1568.9	1566.6	1567.3	1568.9
10°	1552.5	1555.4	1552.8	1554.5	1557.4
12.5°	1534.8	1536.1	1534.8	1535.4	1538.7
15°	1510.1	1511.8	1511.1	1512.4	1515.4
17.5°	1481.2	1483.2	1482.9	1485.5	1487.8
20°	1450.1	1450.4	1451.7	1454.3	1457.0
22.5°	1413.3	1414.3	1415.6	1419.2	1421.8
25°	1373.2	1374.9	1376.5	1380.1	1382.8
27.5°	1330.9	1332.5	1334.8	1338.8	1343.0
30°	1287.6	1287.6	1291.8	1295.8	1299.7
32.5°	1243.9	1242.2	1246.2	1251.1	1260.6
35°	1195.6	1194.3	1198.6	1203.2	1208.1
37.5°	1145.4	1144.4	1149.3	1154.3	1158.9
40°	1094.5	1093.2	1098.1	1103.1	1108.0
42.5°	1042.3	1041.7	1046.3	1051.2	1056.4
45°	988.2	987.8	992.4	997.3	1002.6
47.5°	933.0	932.3	936.9	942.2	946.8
50°	876.5	875.9	880.5	885.7	890.7
52.5°	818.4	818.4	822.7	827.3	834.8
55°	760.0	759.0	763.6	768.9	776.1
57.5°	700.9	699.6	703.9	709.1	715.7
60°	640.5	639.2	643.1	648.4	657.6
62.5°	579.4	577.5	581.4	586.3	591.9
65°	517.7	515.7	519.4	524.0	529.2
67.5°	455.7	453.4	457.0	460.9	465.8
70°	393.3	391.0	393.6	397.6	402.2
72.5°	331.2	328.9	331.2	332.9	338.5
75°	270.5	268.2	269.5	270.8	275.8
77.5°	211.4	209.1	211.7	212.4	215.4
80°	155.9	153.6	155.3	155.6	157.9
82.5°	105.4	103.4	105.7	104.1	106.0
85°	60.7	59.1	59.7	59.1	60.1
87.5°	24.0	22.7	23.0	21.7	21.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)