

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: PORTFOLIO

Report Number: P859471

Luminaire Tested: **LD4C70D010 EU4709035 4LBMDSWGPH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859471
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-3)
Test Lab: INNOVATION CENTER
Issue Date: 4/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C70D010 EU4709035 4LBMDSWGPH
Description: 4 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBMDSW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

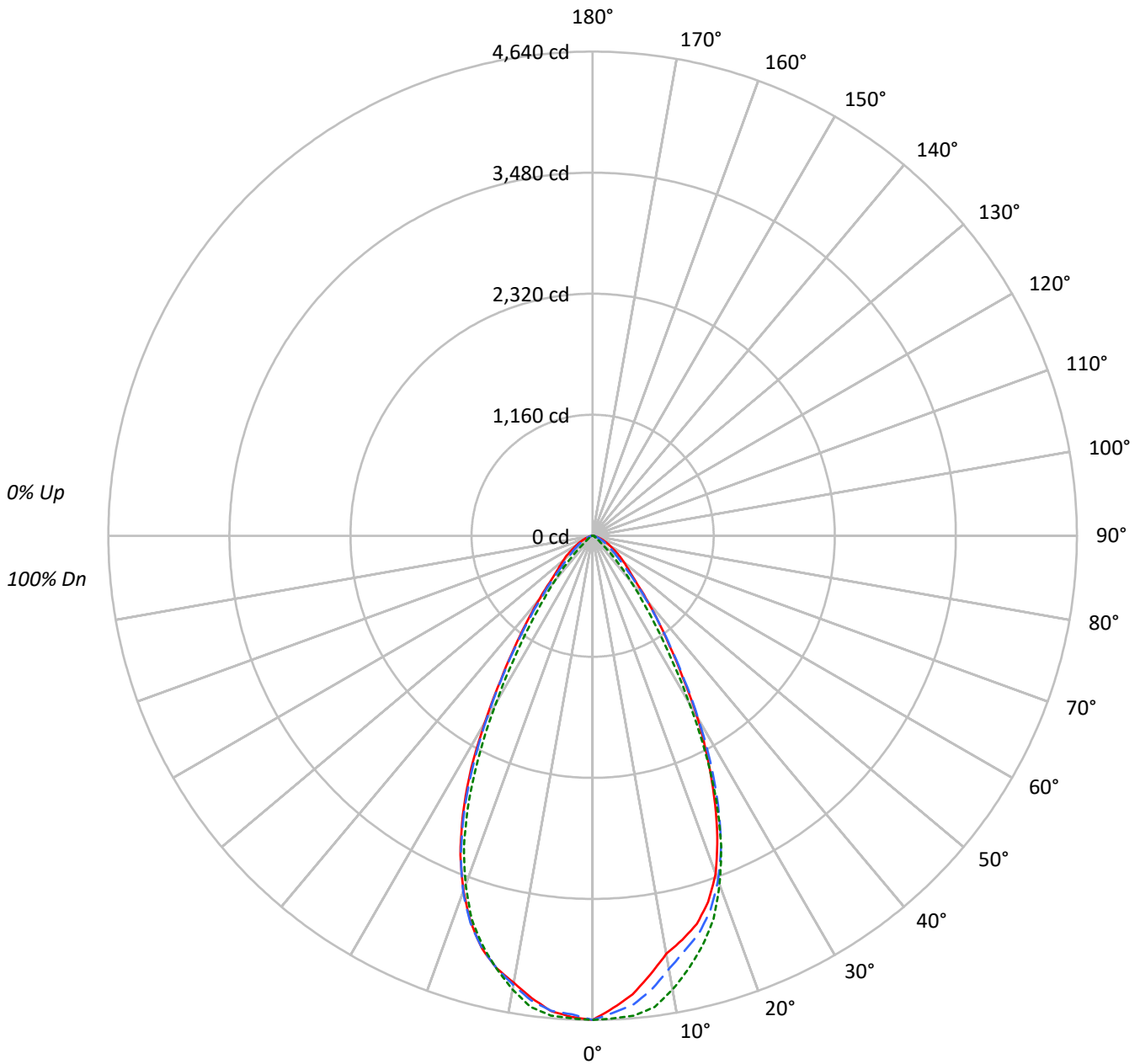
Lumens per Lamp: N/A
Luminaire Lumens: 4224.0 lumens
Efficiency: N/A
Efficacy: 54.2 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 78
Input Voltage (V): NR
Input Current (A_{in}): 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: 25 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				
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	100			100
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92			92
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85			85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78			78
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72			72
5	91	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67			67
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62			62
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58			58
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	55			55
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51			51
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49	48			48

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	570040	570040	570040
5°	543940	569122	563819
10°	507315	550678	542632
15°	489887	517232	520883
20°	450641	464682	473114
25°	373491	380296	398759
30°	284129	262780	292258
35°	192375	157445	194534
40°	131009	90210	126984
45°	90884	45451	85915
50°	73966	18482	69169
55°	59866	11502	54490
60°	47544	8796	43146
65°	37500	7296	33343
70°	28305	6430	25755
75°	20411	5079	18702
80°	15211	5094	12664
85°	10149	5075	10149



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	426.6	10.1
10°-20°	1120.9	26.5
20°-30°	1286.0	30.4
30°-40°	781.3	18.5
40°-50°	334.8	7.9
50°-60°	160.6	3.8
60°-70°	78.1	1.8
70°-80°	29.0	0.7
80°-90°	6.7	0.2
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°	2833.5	67.1
0°-40°	3614.8	85.6
0°-60°	4110.2	97.3
0°-90°	4224.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4224.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4640	4640	4640	4640	4640	
5°	4411	4507	4615	4568	4572	410
15°	3852	3941	4067	4092	4095	1072
25°	2755	2845	2806	2913	2942	1250
35°	1283	1301	1050	1268	1297	822
45°	523	466	262	419	494	425
55°	280	208	54	186	254	252
65°	129	86	25	79	115	131
75°	43	29	11	25	39	47
85°	7	7	4	4	7	10
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	4640.0	4640.0	4640.0	4640.0	4640.0	4640.0	4640.0	4640.0	4640.0
2.5°	4528.9	4579.1	4575.5	4618.5	4629.3	4618.5	4589.8	4618.5	4614.9
5°	4410.7	4468.0	4507.4	4579.1	4614.9	4607.8	4568.3	4575.5	4571.9
7.5°	4238.7	4310.4	4378.4	4485.9	4554.0	4550.4	4493.1	4482.4	4468.0
10°	4066.7	4134.8	4213.6	4324.7	4414.3	4428.6	4371.3	4356.9	4349.8
12.5°	3966.4	4020.1	4073.9	4170.6	4249.5	4278.1	4245.9	4249.5	4245.9
15°	3851.7	3905.5	3941.3	4013.0	4066.7	4106.1	4091.8	4113.3	4095.4
17.5°	3679.8	3744.2	3758.6	3812.3	3851.7	3876.8	3891.2	3912.7	3884.0
20°	3446.9	3497.0	3514.9	3536.4	3554.3	3586.6	3629.6	3651.1	3618.8
22.5°	3120.8	3217.5	3214.0	3203.2	3221.1	3231.9	3300.0	3335.8	3310.7
25°	2755.3	2855.7	2844.9	2801.9	2805.5	2827.0	2913.0	2959.6	2941.7
27.5°	2372.0	2465.1	2440.0	2357.6	2336.1	2368.4	2479.4	2533.2	2522.4
30°	2002.9	2063.8	2024.4	1877.5	1852.4	1891.8	2035.2	2088.9	2060.2
32.5°	1605.2	1651.8	1633.9	1454.7	1411.7	1451.1	1619.5	1669.7	1637.4
35°	1282.7	1325.7	1300.6	1089.2	1049.8	1092.8	1268.4	1325.7	1297.1
37.5°	1028.3	1060.6	1028.3	802.6	766.8	809.8	978.2	1053.4	1017.6
40°	816.9	842.0	799.0	591.2	562.5	584.0	741.7	816.9	791.8
42.5°	644.9	662.9	616.3	433.5	401.3	430.0	559.0	627.0	612.7
45°	523.1	523.1	465.8	301.0	261.6	290.2	419.2	490.9	494.5
47.5°	447.9	437.1	365.5	200.6	150.5	189.9	333.2	408.5	419.2
50°	387.0	372.6	301.0	146.9	96.7	136.2	275.9	351.1	361.9
52.5°	333.2	322.5	250.8	114.7	68.1	103.9	232.9	304.6	315.3
55°	279.5	272.3	207.8	89.6	53.7	78.8	186.3	247.2	254.4
57.5°	229.3	218.6	168.4	75.2	43.0	64.5	154.1	204.2	211.4
60°	193.5	182.7	136.2	60.9	35.8	50.2	125.4	168.4	175.6
62.5°	161.2	150.5	111.1	50.2	28.7	43.0	100.3	136.2	143.3
65°	129.0	121.8	86.0	39.4	25.1	32.2	78.8	107.5	114.7
67.5°	103.9	96.7	68.1	32.2	21.5	25.1	60.9	86.0	93.2
70°	78.8	71.7	50.2	25.1	17.9	21.5	46.6	64.5	71.7
72.5°	57.3	53.7	39.4	21.5	14.3	17.9	32.2	46.6	53.7
75°	43.0	39.4	28.7	14.3	10.7	14.3	25.1	35.8	39.4
77.5°	28.7	28.7	21.5	10.7	10.7	10.7	17.9	25.1	25.1
80°	21.5	17.9	14.3	7.2	7.2	7.2	10.7	17.9	17.9
82.5°	14.3	10.7	10.7	7.2	7.2	7.2	7.2	10.7	10.7
85°	7.2	7.2	7.2	3.6	3.6	3.6	3.6	7.2	7.2
87.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)