

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: P859428

Luminaire Tested: **LD4C70D010 EU4709027 4LBMDDWLI**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P859428
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 EU4709027 4LBMDDWLI
Description: 4 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBMDDW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

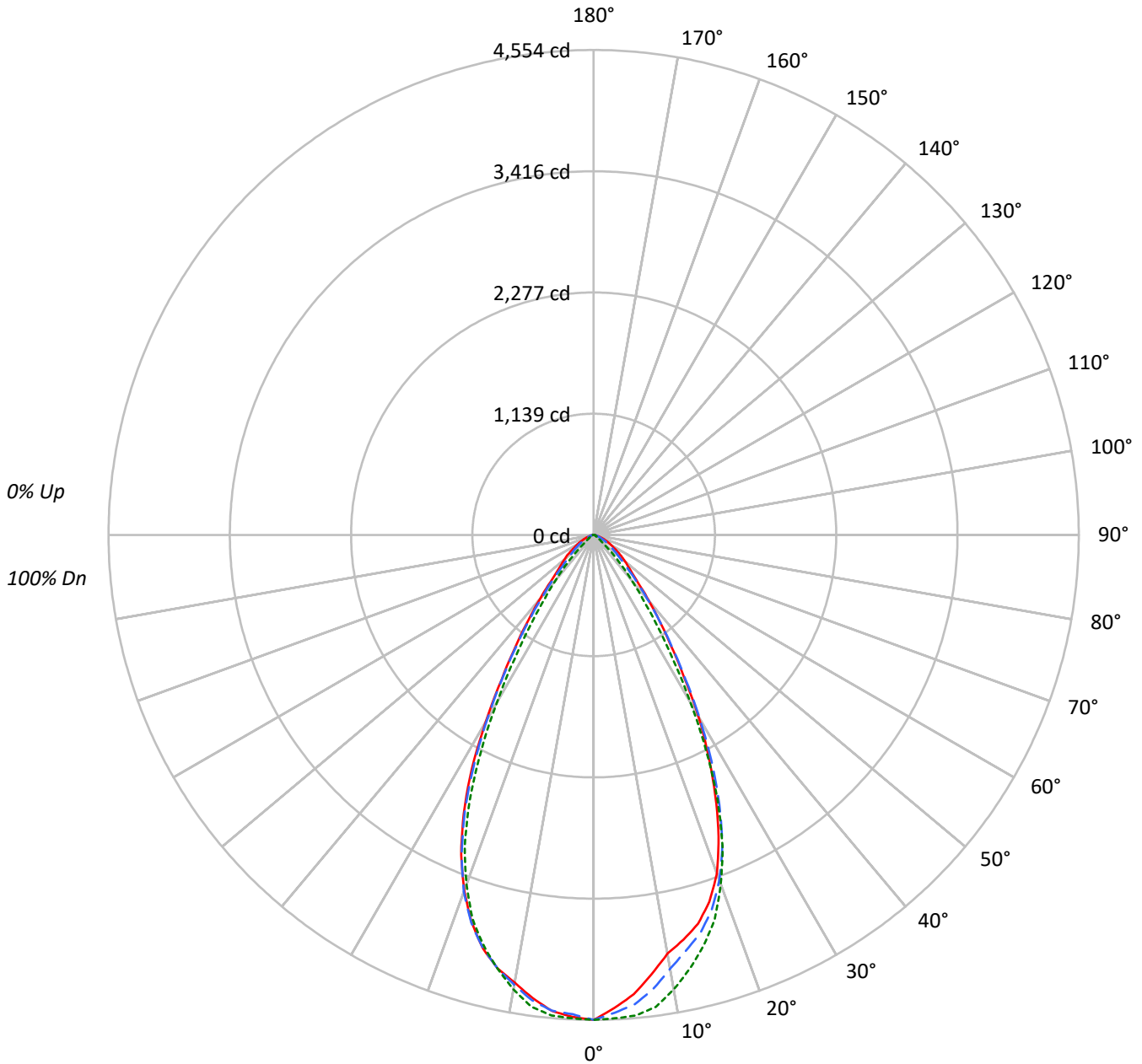
Lumens per Lamp: N/A
Luminaire Lumens: 4146.0 lumens
Efficiency: N/A
Efficacy: 53.2 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	559512	559512	559512
5°	533889	558615	553411
10°	497947	540511	532615
15°	480844	507681	511267
20°	442313	456105	464381
25°	366605	373275	391385
30°	278881	257928	286867
35°	188820	154536	190935
40°	128588	88542	124643
45°	89216	44599	84317
50°	72590	18157	67888
55°	58752	11309	53483
60°	46660	8649	42335
65°	36802	7151	32703
70°	27802	6322	25252
75°	20031	5031	18370
80°	14928	4952	12452
85°	9867	4934	9867



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	418.7	10.1
10°-20°	1100.2	26.5
20°-30°	1262.3	30.4
30°-40°	766.8	18.5
40°-50°	328.6	7.9
50°-60°	157.7	3.8
60°-70°	76.7	1.8
70°-80°	28.5	0.7
80°-90°	6.5	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°	2781.2	67.1
0°-40°	3548.0	85.6
0°-60°	4034.3	97.3
0°-90°	4146.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4146.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4554	4554	4554	4554	4554	
5°	4329	4424	4530	4484	4488	402
15°	3781	3868	3992	4016	4020	1053
25°	2704	2792	2754	2859	2887	1227
35°	1259	1277	1030	1245	1273	807
45°	514	457	257	412	485	417
55°	274	204	53	183	250	248
65°	127	84	25	77	112	128
75°	42	28	11	25	39	46
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°	4554.3	4554.3	4554.3	4554.3	4554.3	4554.3	4554.3	4554.3	4554.3
2.5°	4445.3	4494.5	4491.0	4533.2	4543.8	4533.2	4505.1	4533.2	4529.7
5°	4329.2	4385.5	4424.2	4494.5	4529.7	4522.7	4484.0	4491.0	4487.5
7.5°	4160.4	4230.8	4297.6	4403.1	4469.9	4466.4	4410.1	4399.6	4385.5
10°	3991.6	4058.4	4135.8	4244.8	4332.8	4346.8	4290.6	4276.5	4269.5
12.5°	3893.2	3945.9	3998.7	4093.6	4171.0	4199.1	4167.5	4171.0	4167.5
15°	3780.6	3833.4	3868.5	3938.9	3991.6	4030.3	4016.2	4037.3	4019.8
17.5°	3611.8	3675.1	3689.2	3741.9	3780.6	3805.2	3819.3	3840.4	3812.3
20°	3383.2	3432.4	3450.0	3471.1	3488.7	3520.4	3562.6	3583.7	3552.0
22.5°	3063.2	3158.1	3154.6	3144.1	3161.6	3172.2	3239.0	3274.2	3249.6
25°	2704.5	2802.9	2792.4	2750.2	2753.7	2774.8	2859.2	2904.9	2887.3
27.5°	2328.2	2419.6	2395.0	2314.1	2293.0	2324.6	2433.7	2486.4	2475.9
30°	1965.9	2025.7	1987.0	1842.8	1818.2	1856.9	1997.6	2050.3	2022.2
32.5°	1575.5	1621.3	1603.7	1427.8	1385.6	1424.3	1589.6	1638.9	1607.2
35°	1259.0	1301.2	1276.6	1069.1	1030.4	1072.6	1245.0	1301.2	1273.1
37.5°	1009.3	1041.0	1009.3	787.8	752.6	794.8	960.1	1034.0	998.8
40°	801.8	826.5	784.3	580.3	552.1	573.2	728.0	801.8	777.2
42.5°	633.0	650.6	604.9	425.5	393.9	422.0	548.6	615.4	601.4
45°	513.5	513.5	457.2	295.4	256.7	284.9	411.5	481.8	485.3
47.5°	439.6	429.1	358.7	196.9	147.7	186.4	327.1	400.9	411.5
50°	379.8	365.8	295.4	144.2	95.0	133.6	270.8	344.7	355.2
52.5°	327.1	316.5	246.2	112.5	66.8	102.0	228.6	298.9	309.5
55°	274.3	267.3	204.0	87.9	52.8	77.4	182.9	242.7	249.7
57.5°	225.1	214.5	165.3	73.9	42.2	63.3	151.2	200.5	207.5
60°	189.9	179.4	133.6	59.8	35.2	49.2	123.1	165.3	172.3
62.5°	158.3	147.7	109.0	49.2	28.1	42.2	98.5	133.6	140.7
65°	126.6	119.6	84.4	38.7	24.6	31.7	77.4	105.5	112.5
67.5°	102.0	95.0	66.8	31.7	21.1	24.6	59.8	84.4	91.4
70°	77.4	70.3	49.2	24.6	17.6	21.1	45.7	63.3	70.3
72.5°	56.3	52.8	38.7	21.1	14.1	17.6	31.7	45.7	52.8
75°	42.2	38.7	28.1	14.1	10.6	14.1	24.6	35.2	38.7
77.5°	28.1	28.1	21.1	10.6	10.6	10.6	17.6	24.6	24.6
80°	21.1	17.6	14.1	7.0	7.0	7.0	10.6	17.6	17.6
82.5°	14.1	10.6	10.6	7.0	7.0	7.0	7.0	10.6	10.6
85°	7.0	7.0	7.0	3.5	3.5	3.5	3.5	7.0	7.0
87.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
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)