

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: P859229

Luminaire Tested: **LD4C60D010 EU4609040 4LBMDDWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859229
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: LD4C60D010 EU4609040 4LBMDDWLI
Description: 4 INCH 6000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBMDDW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

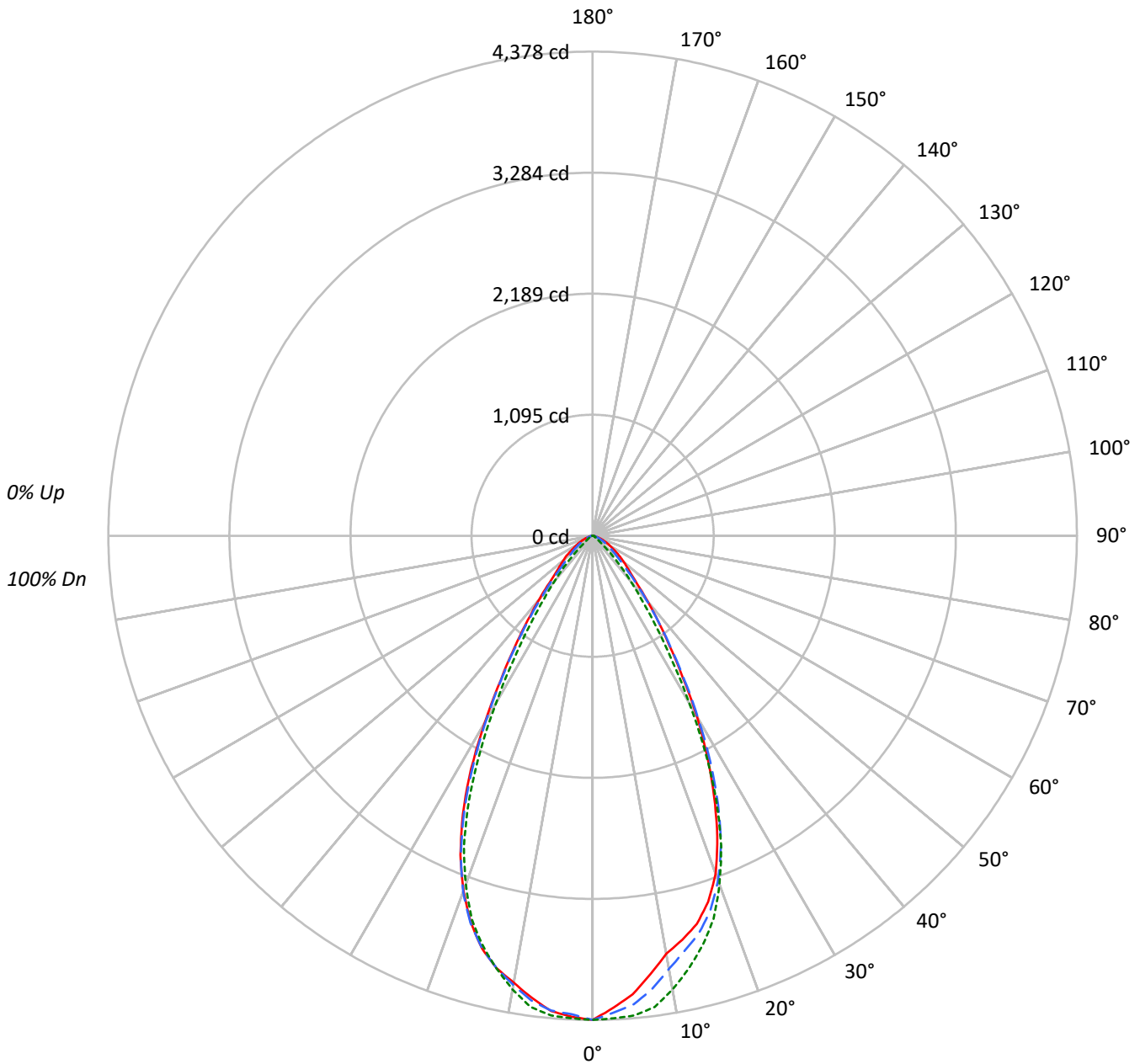
Lumens per Lamp: N/A
Luminaire Lumens: 3985.0 lumens
Efficiency: N/A
Efficacy: 55.3 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 72
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°	537791	537791	537791
5°	513158	536923	531916
10°	478611	519516	511931
15°	462173	487967	491413
20°	425134	438390	446352
25°	352359	358784	376189
30°	268057	247913	275731
35°	181486	148537	183526
40°	123600	85110	119799
45°	85741	42879	81050
50°	69780	17450	65250
55°	56482	10859	51405
60°	44842	8305	40689
65°	35378	6889	31453
70°	26724	6070	24282
75°	19272	4794	17658
80°	14362	4811	11956
85°	9585	4793	9585



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	402.5	10.1
10°-20°	1057.5	26.5
20°-30°	1213.3	30.4
30°-40°	737.0	18.5
40°-50°	315.9	7.9
50°-60°	151.5	3.8
60°-70°	73.7	1.8
70°-80°	27.3	0.7
80°-90°	6.3	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°	2673.2	67.1
0°-40°	3410.3	85.6
0°-60°	3877.7	97.3
0°-90°	3985.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3985.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4378	4378	4378	4378	4378	
5°	4161	4252	4354	4310	4313	387
15°	3634	3718	3837	3860	3864	1012
25°	2599	2684	2647	2748	2775	1179
35°	1210	1227	990	1197	1224	776
45°	494	439	247	396	466	401
55°	264	196	51	176	240	238
65°	122	81	24	74	108	123
75°	41	27	10	24	37	44
85°	7	7	3	3	7	9
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°	4377.5	4377.5	4377.5	4377.5	4377.5	4377.5	4377.5	4377.5	4377.5
2.5°	4272.7	4320.0	4316.6	4357.2	4367.3	4357.2	4330.1	4357.2	4353.8
5°	4161.1	4215.2	4252.4	4320.0	4353.8	4347.0	4309.9	4316.6	4313.2
7.5°	3998.9	4066.5	4130.7	4232.1	4296.3	4293.0	4238.9	4228.7	4215.2
10°	3836.6	3900.8	3975.2	4080.0	4164.5	4178.0	4123.9	4110.4	4103.7
12.5°	3742.0	3792.7	3843.4	3934.6	4009.0	4036.1	4005.6	4009.0	4005.6
15°	3633.8	3684.5	3718.3	3785.9	3836.6	3873.8	3860.3	3880.6	3863.7
17.5°	3471.5	3532.4	3545.9	3596.6	3633.8	3657.5	3671.0	3691.3	3664.2
20°	3251.8	3299.2	3316.1	3336.3	3353.2	3383.7	3424.2	3444.5	3414.1
22.5°	2944.2	3035.5	3032.1	3022.0	3038.9	3049.0	3113.2	3147.0	3123.4
25°	2599.4	2694.1	2683.9	2643.4	2646.8	2667.0	2748.2	2792.1	2775.2
27.5°	2237.7	2325.6	2302.0	2224.2	2203.9	2234.4	2339.2	2389.9	2379.7
30°	1889.6	1947.0	1909.9	1771.3	1747.6	1784.8	1920.0	1970.7	1943.7
32.5°	1514.4	1558.3	1541.4	1372.4	1331.8	1369.0	1527.9	1575.2	1544.8
35°	1210.1	1250.7	1227.0	1027.6	990.4	1031.0	1196.6	1250.7	1223.7
37.5°	970.1	1000.6	970.1	757.2	723.4	763.9	922.8	993.8	960.0
40°	770.7	794.4	753.8	557.7	530.7	551.0	699.7	770.7	747.0
42.5°	608.5	625.4	581.4	409.0	378.6	405.6	527.3	591.5	578.0
45°	493.5	493.5	439.4	283.9	246.8	273.8	395.5	463.1	466.5
47.5°	422.5	412.4	344.8	189.3	142.0	179.2	314.4	385.4	395.5
50°	365.1	351.5	283.9	138.6	91.3	128.5	260.3	331.3	341.4
52.5°	314.4	304.2	236.6	108.2	64.2	98.0	219.7	287.3	297.5
55°	263.7	256.9	196.1	84.5	50.7	74.4	175.8	233.2	240.0
57.5°	216.3	206.2	158.9	71.0	40.6	60.8	145.4	192.7	199.4
60°	182.5	172.4	128.5	57.5	33.8	47.3	118.3	158.9	165.6
62.5°	152.1	142.0	104.8	47.3	27.0	40.6	94.6	128.5	135.2
65°	121.7	114.9	81.1	37.2	23.7	30.4	74.4	101.4	108.2
67.5°	98.0	91.3	64.2	30.4	20.3	23.7	57.5	81.1	87.9
70°	74.4	67.6	47.3	23.7	16.9	20.3	43.9	60.8	67.6
72.5°	54.1	50.7	37.2	20.3	13.5	16.9	30.4	43.9	50.7
75°	40.6	37.2	27.0	13.5	10.1	13.5	23.7	33.8	37.2
77.5°	27.0	27.0	20.3	10.1	10.1	10.1	16.9	23.7	23.7
80°	20.3	16.9	13.5	6.8	6.8	6.8	10.1	16.9	16.9
82.5°	13.5	10.1	10.1	6.8	6.8	6.8	6.8	10.1	10.1
85°	6.8	6.8	6.8	3.4	3.4	3.4	3.4	6.8	6.8
87.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
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)