

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: P858968

Luminaire Tested: **LD4C50D010 EU4509030 4LBMDSWGPH**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P858968
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: LD4C50D010 EU4509030 4LBMDSWGPH
Description: 4 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

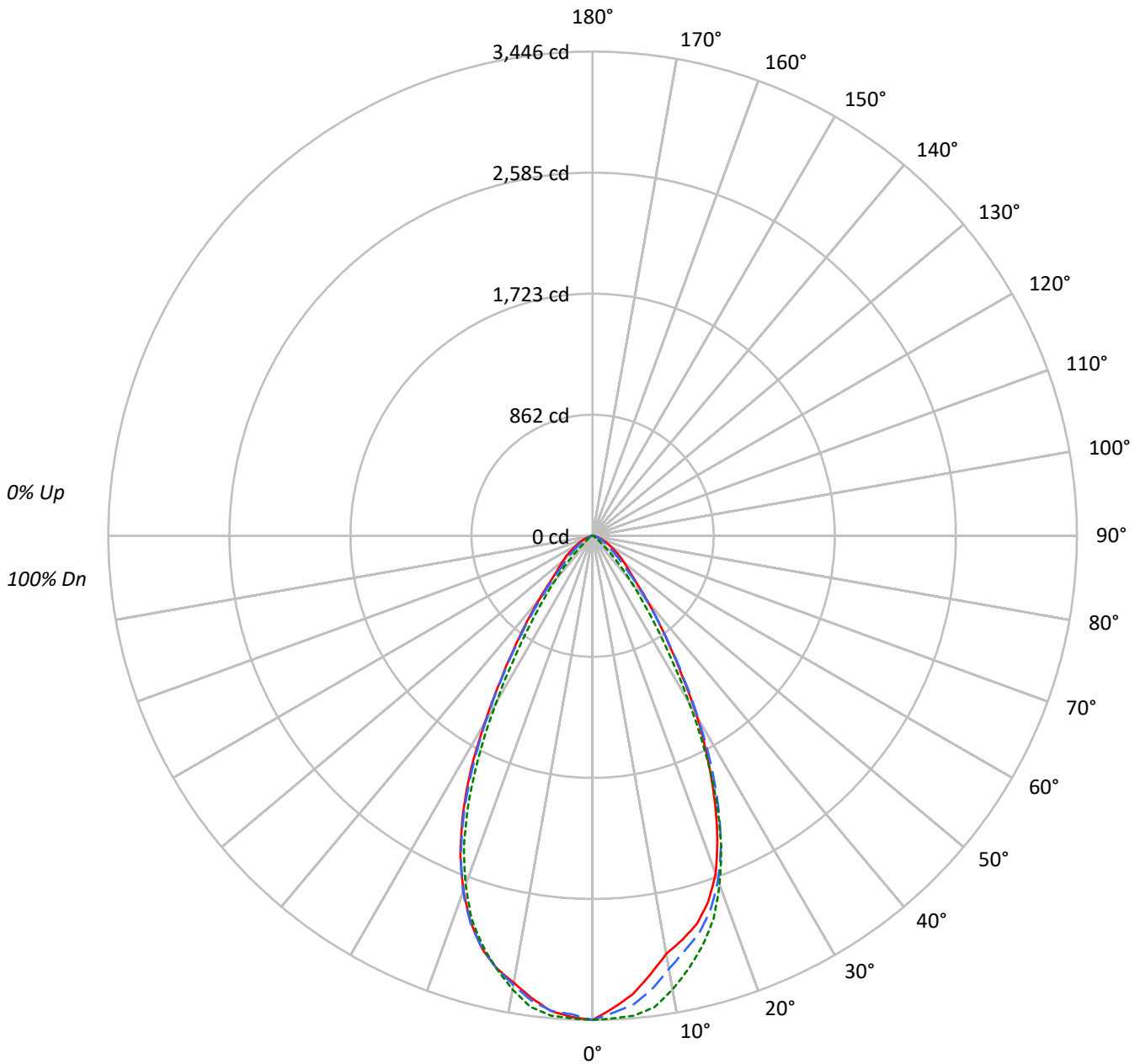
Lumens per Lamp: N/A
Luminaire Lumens: 3137.0 lumens
Efficiency: N/A
Efficacy: 53.7 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 58.4
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°	423341	423341	423341
5°	403956	422664	418730
10°	376766	408964	402988
15°	363819	384131	386840
20°	334663	345109	351371
25°	277384	282426	296144
30°	211015	195155	217058
35°	142868	116937	144472
40°	97299	67004	94316
45°	67498	33758	63798
50°	54930	13723	51375
55°	44466	8546	40460
60°	35308	6536	32040
65°	27849	5407	24767
70°	21013	4777	19109
75°	15142	3797	13908
80°	11320	3750	9410
85°	7471	3806	7471



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.8	10.1
10°-20°	832.4	26.5
20°-30°	955.1	30.4
30°-40°	580.2	18.5
40°-50°	248.7	7.9
50°-60°	119.3	3.8
60°-70°	58.0	1.8
70°-80°	21.5	0.7
80°-90°	5.0	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°	2104.4	67.1
0°-40°	2684.6	85.6
0°-60°	3052.5	97.3
0°-90°	3137.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3137.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3446	3446	3446	3446	3446	
5°	3276	3348	3427	3393	3395	304
15°	2860	2927	3020	3039	3042	796
25°	2046	2113	2084	2163	2185	928
35°	953	966	780	942	963	611
45°	388	346	194	311	367	316
55°	208	154	40	138	189	187
65°	96	64	19	58	85	97
75°	32	21	8	19	29	35
85°	5	5	3	3	5	7
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°	3445.9	3445.9	3445.9	3445.9	3445.9	3445.9	3445.9	3445.9	3445.9
2.5°	3363.5	3400.7	3398.1	3430.0	3438.0	3430.0	3408.7	3430.0	3427.3
5°	3275.6	3318.2	3347.5	3400.7	3427.3	3422.0	3392.7	3398.1	3395.4
7.5°	3147.9	3201.1	3251.7	3331.5	3382.1	3379.4	3336.8	3328.9	3318.2
10°	3020.2	3070.8	3129.3	3211.8	3278.3	3289.0	3246.4	3235.7	3230.4
12.5°	2945.7	2985.6	3025.5	3097.4	3155.9	3177.2	3153.2	3155.9	3153.2
15°	2860.5	2900.5	2927.1	2980.3	3020.2	3049.5	3038.8	3054.8	3041.5
17.5°	2732.8	2780.7	2791.4	2831.3	2860.5	2879.2	2889.8	2905.8	2884.5
20°	2559.8	2597.1	2610.4	2626.4	2639.7	2663.6	2695.6	2711.5	2687.6
22.5°	2317.7	2389.5	2386.9	2378.9	2392.2	2400.2	2450.7	2477.4	2458.7
25°	2046.3	2120.8	2112.8	2080.9	2083.5	2099.5	2163.4	2198.0	2184.7
27.5°	1761.6	1830.7	1812.1	1750.9	1734.9	1758.9	1841.4	1881.3	1873.3
30°	1487.5	1532.7	1503.4	1394.3	1375.7	1405.0	1511.4	1551.3	1530.1
32.5°	1192.1	1226.7	1213.4	1080.4	1048.4	1077.7	1202.8	1240.0	1216.1
35°	952.6	984.6	965.9	808.9	779.7	811.6	942.0	984.6	963.3
37.5°	763.7	787.6	763.7	596.1	569.4	601.4	726.4	782.3	755.7
40°	606.7	625.3	593.4	439.1	417.8	433.7	550.8	606.7	588.1
42.5°	479.0	492.3	457.7	322.0	298.0	319.3	415.1	465.7	455.0
45°	388.5	388.5	345.9	223.5	194.3	215.5	311.3	364.6	367.2
47.5°	332.6	324.6	271.4	149.0	111.8	141.0	247.5	303.3	311.3
50°	287.4	276.7	223.5	109.1	71.8	101.1	204.9	260.8	268.8
52.5°	247.5	239.5	186.3	85.2	50.6	77.2	173.0	226.2	234.2
55°	207.6	202.2	154.3	66.5	39.9	58.5	138.4	183.6	188.9
57.5°	170.3	162.3	125.1	55.9	31.9	47.9	114.4	151.7	157.0
60°	143.7	135.7	101.1	45.2	26.6	37.3	93.1	125.1	130.4
62.5°	119.7	111.8	82.5	37.3	21.3	31.9	74.5	101.1	106.4
65°	95.8	90.5	63.9	29.3	18.6	23.9	58.5	79.8	85.2
67.5°	77.2	71.8	50.6	23.9	16.0	18.6	45.2	63.9	69.2
70°	58.5	53.2	37.3	18.6	13.3	16.0	34.6	47.9	53.2
72.5°	42.6	39.9	29.3	16.0	10.6	13.3	23.9	34.6	39.9
75°	31.9	29.3	21.3	10.6	8.0	10.6	18.6	26.6	29.3
77.5°	21.3	21.3	16.0	8.0	8.0	8.0	13.3	18.6	18.6
80°	16.0	13.3	10.6	5.3	5.3	5.3	8.0	13.3	13.3
82.5°	10.6	8.0	8.0	5.3	5.3	5.3	5.3	8.0	8.0
85°	5.3	5.3	5.3	2.7	2.7	2.7	2.7	5.3	5.3
87.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
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)