

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: P563839

Luminaire Tested: **LD4C40D010 EX4C409030 4LCSQWLI**

Issue Date: 2/18/2022



Test Information

Test Method: LM-79-08
Report Number: P563839
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2105-247-13)
Test Lab: INNOVATION CENTER
Issue Date: 2/18/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C40D010 EX4C409030 4LCSQWLI
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LCSQW TRIM WITH LI FINISH, DIM TO WARM
Light Source: -
Ballast/Driver: -

Summary

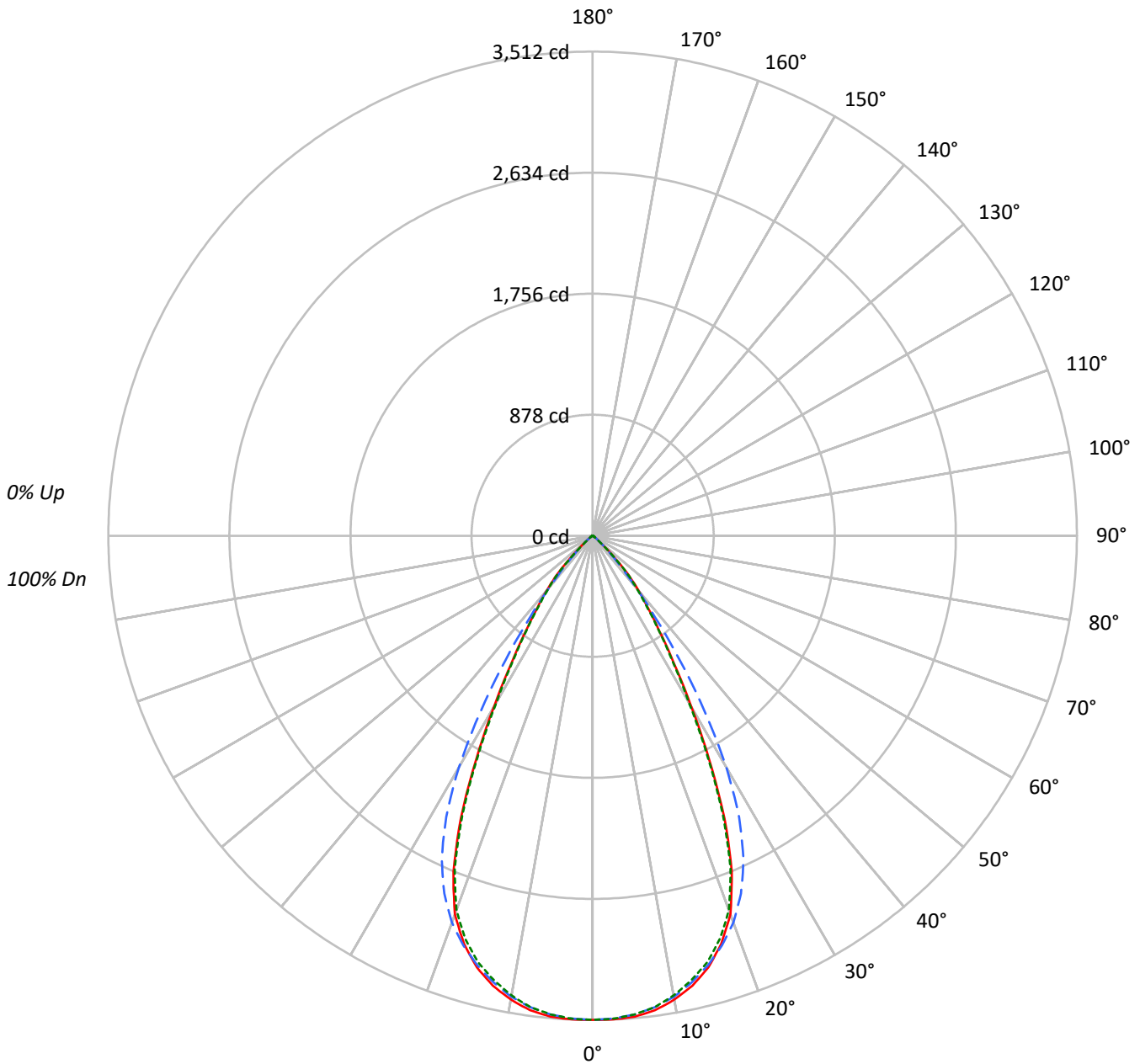
Lumens per Lamp: N/A
Luminaire Lumens: 3143.2 lumens
Efficiency: N/A
Efficacy: 66.9 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.9
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 47
Input Voltage (V):
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

TEST NUMBER: P563839

CATALOG NUMBER: LD4C40D010 EX4C409030 4LCSQWLI

Luminous Intensity Polar Plot





TEST NUMBER: P563839

CATALOG NUMBER: LD4C40D010 EX4C409030 4LCSQWLI

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	114	111	108	106	111	109	106	104	105	103	101	101	100	98	97	96	95	94																			
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87																			
3	103	96	91	88	101	95	90	87	92	89	85	90	87	84	88	85	83	81																			
4	98	90	85	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76																			
5	93	84	79	74	91	84	78	74	82	77	73	80	76	73	79	75	72	71																			
6	88	79	73	69	87	79	73	69	77	72	68	76	71	68	74	71	68	66																			
7	84	75	69	65	82	74	68	64	73	68	64	71	67	64	70	66	63	62																			
8	80	70	64	60	79	70	64	60	69	64	60	68	63	60	67	63	59	58																			
9	76	66	61	57	75	66	60	57	65	60	56	64	60	56	63	59	56	55																			
10	72	63	57	53	71	62	57	53	62	57	53	61	56	53	60	56	53	52																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	338773	338773	338773
5°	339127	337558	337558
10°	334671	332692	331663
15°	323812	322284	320106
20°	299891	306432	296575
25°	241119	275645	237946
30°	159157	216124	155380
35°	99475	129771	97661
40°	64918	60145	62387
45°	31262	24003	29502
50°	7866	9562	7385
55°	4340	3936	4206
60°	2972	2489	2798
65°	2009	1826	2009
70°	1608	1382	1608
75°	1230	1230	1230
80°	889	1334	1334
85°	886	1771	1771



TEST NUMBER: P563839

CATALOG NUMBER: LD4C40D010 EX4C409030 4LCSQWLI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	330.2	10.5
10°-20°	901.7	28.7
20°-30°	1074.6	34.2
30°-40°	608.5	19.4
40°-50°	188.1	6.0
50°-60°	26.1	0.8
60°-70°	8.9	0.3
70°-80°	3.6	0.1
80°-90°	1.5	0.0
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°	2306.5	73.4
0°-40°	2914.9	92.7
0°-60°	3129.2	99.6
0°-90°	3143.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3143.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3511	3511	3511	3511	3511	
5°	3501	3493	3485	3483	3485	332
15°	3242	3236	3226	3213	3204	904
25°	2265	2397	2589	2401	2235	1010
35°	844	921	1102	924	829	550
45°	229	267	176	260	216	189
55°	26	26	23	25	25	25
65°	9	9	8	9	9	9
75°	3	3	3	3	3	4
85°	1	2	2	2	2	1
90°	0	0	0	0	0	



TEST NUMBER: P563839

CATALOG NUMBER: LD4C40D010 EX4C409030 4LCSQWLI

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3511.0	3511.0	3511.0	3511.0	3511.0
2.5°	3511.8	3506.1	3504.5	3502.9	3506.1
5°	3501.3	3493.2	3485.1	3482.7	3485.1
7.5°	3471.4	3463.4	3449.6	3446.5	3448.8
10°	3415.8	3408.5	3395.6	3388.4	3385.1
12.5°	3342.4	3330.3	3318.2	3310.1	3302.0
15°	3241.6	3235.9	3226.3	3213.3	3204.5
17.5°	3102.1	3110.1	3115.8	3089.9	3066.6
20°	2920.6	2950.4	2984.3	2931.9	2888.3
22.5°	2637.5	2722.9	2809.2	2710.0	2613.3
25°	2264.8	2397.1	2589.1	2401.1	2235.0
27.5°	1830.0	1997.9	2300.3	1998.7	1805.9
30°	1428.5	1601.0	1939.8	1578.4	1394.6
32.5°	1096.9	1225.9	1515.5	1206.6	1073.6
35°	844.5	921.1	1101.7	923.5	829.1
37.5°	656.5	695.3	741.2	681.5	637.2
40°	515.4	517.0	477.5	508.9	495.3
42.5°	382.3	380.7	293.6	371.0	373.4
45°	229.1	267.0	175.9	259.7	216.2
47.5°	108.8	150.9	105.7	142.7	100.8
50°	52.4	72.6	63.7	67.7	49.2
52.5°	35.5	37.1	36.3	35.5	33.9
55°	25.8	25.8	23.4	25.0	25.0
57.5°	19.3	19.3	17.0	18.5	18.5
60°	15.4	14.5	12.9	14.5	14.5
62.5°	11.3	11.3	9.7	11.3	11.3
65°	8.8	8.8	8.0	8.8	8.8
67.5°	7.2	7.2	5.7	7.2	6.4
70°	5.7	5.7	4.9	5.7	5.7
72.5°	4.1	4.1	4.1	4.1	4.1
75°	3.3	3.3	3.3	3.3	3.3
77.5°	2.4	2.4	2.4	2.4	2.4
80°	1.6	1.6	2.4	2.4	2.4
82.5°	1.6	1.6	1.6	1.6	1.6
85°	0.8	1.6	1.6	1.6	1.6
87.5°	0.8	0.8	1.6	1.6	1.6
90°	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)