

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: P563857

Luminaire Tested: **LD4C05D010 EX4C05D2W 4LCSQWLI**

Issue Date: 2/18/2022



Test Information

Test Method: LM-79-08
Report Number: P563857
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: LD4C05D010 EX4C05D2W 4LCSQWLI
Description: 4 INCH 500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS AND 4LCSQW TRIM WITH LI FINISH, DIM TO WARM
Light Source: -
Ballast/Driver: -

Summary

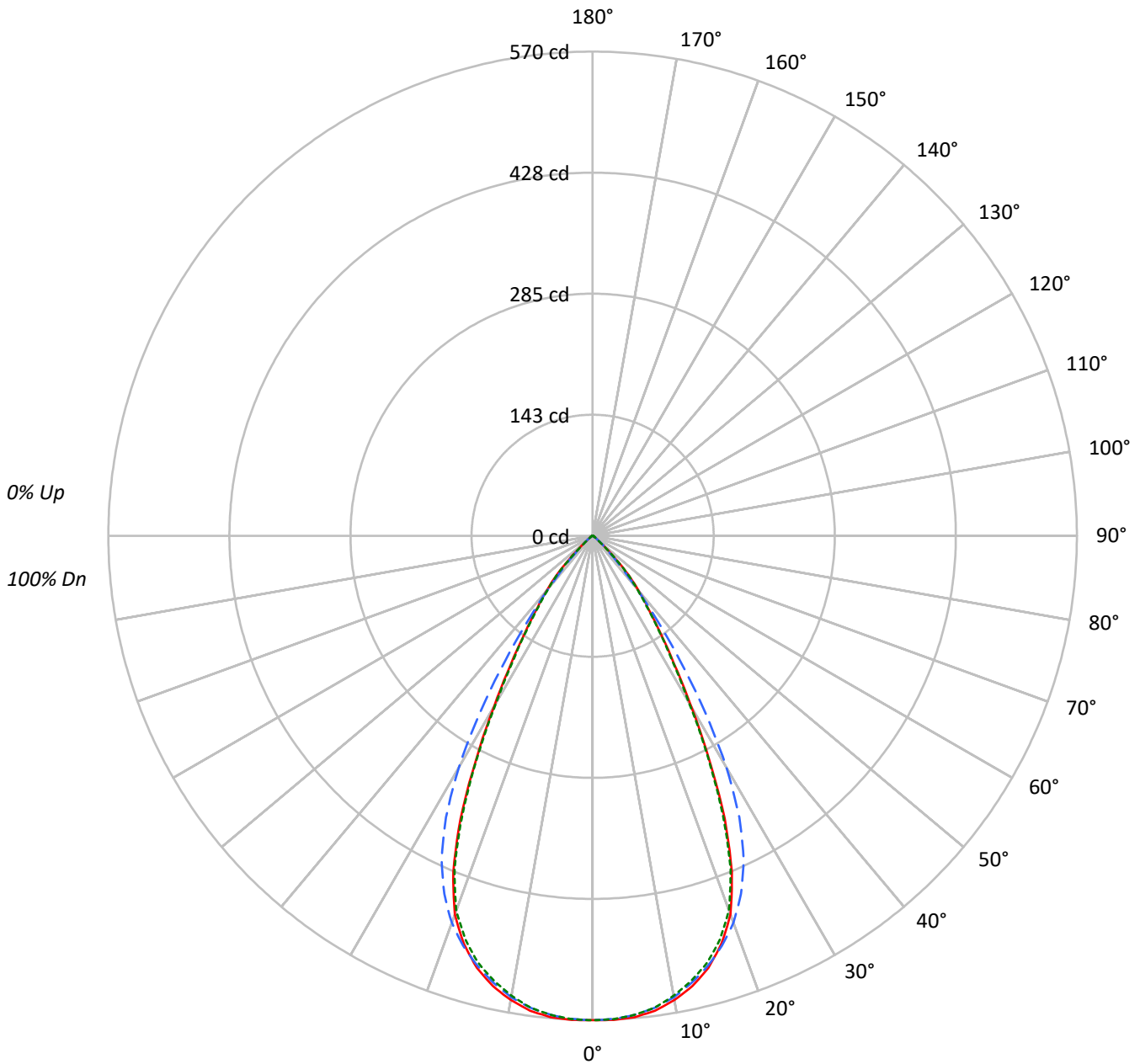
Lumens per Lamp: N/A
Luminaire Lumens: 510.6 lumens
Efficiency: N/A
Efficacy: 70.9 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.9
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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: P563857

CATALOG NUMBER: LD4C05D010 EX4C05D2W 4LCSQWLI

Luminous Intensity Polar Plot





TEST NUMBER: P563857

CATALOG NUMBER: LD4C05D010 EX4C05D2W 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°	55028	55028	55028
5°	55093	54841	54841
10°	54368	54044	53878
15°	52603	52364	52004
20°	48712	49780	48178
25°	39168	44779	38657
30°	25848	35107	25236
35°	16161	21085	15866
40°	10543	9774	10140
45°	5076	3903	4790
50°	1276	1561	1201
55°	707	639	690
60°	463	405	444
65°	320	297	320
70°	254	226	254
75°	186	186	186
80°	167	222	222
85°	111	332	332



TEST NUMBER: P563857

CATALOG NUMBER: LD4C05D010 EX4C05D2W 4LCSQWLI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.6	10.5
10°-20°	146.5	28.7
20°-30°	174.6	34.2
30°-40°	98.9	19.4
40°-50°	30.6	6.0
50°-60°	4.3	0.8
60°-70°	1.4	0.3
70°-80°	0.6	0.1
80°-90°	0.3	0.1
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°	374.7	73.4
0°-40°	473.6	92.7
0°-60°	508.4	99.6
0°-90°	510.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	510.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	570	570	570	570	570	
5°	569	568	566	566	566	54
15°	527	526	524	522	521	147
25°	368	389	421	390	363	164
35°	137	150	179	150	135	89
45°	37	43	29	42	35	31
55°	4	4	4	4	4	4
65°	1	1	1	1	1	1
75°	0	0	0	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P563857

CATALOG NUMBER: LD4C05D010 EX4C05D2W 4LCSQWLI

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	570.3	570.3	570.3	570.3	570.3
2.5°	570.5	569.6	569.3	569.1	569.6
5°	568.8	567.5	566.2	565.8	566.2
7.5°	563.9	562.6	560.5	559.9	560.3
10°	554.9	553.8	551.6	550.5	549.9
12.5°	543.0	541.0	539.1	537.8	536.5
15°	526.6	525.7	524.2	522.0	520.6
17.5°	503.9	505.2	506.2	502.0	498.2
20°	474.4	479.3	484.8	476.4	469.2
22.5°	428.4	442.4	456.4	440.2	424.6
25°	367.9	389.4	420.6	390.1	363.1
27.5°	297.3	324.6	373.7	324.7	293.4
30°	232.0	260.1	315.1	256.4	226.5
32.5°	178.2	199.2	246.2	196.0	174.4
35°	137.2	149.6	179.0	150.0	134.7
37.5°	106.7	112.9	120.4	110.8	103.6
40°	83.7	84.0	77.6	82.7	80.5
42.5°	62.2	61.8	47.7	60.3	60.6
45°	37.2	43.3	28.6	42.2	35.1
47.5°	17.7	24.5	17.2	23.2	16.4
50°	8.5	11.8	10.4	11.0	8.0
52.5°	5.8	6.0	5.9	5.8	5.5
55°	4.2	4.2	3.8	4.1	4.1
57.5°	3.2	3.2	2.7	3.1	3.1
60°	2.4	2.3	2.1	2.3	2.3
62.5°	1.8	1.8	1.5	1.8	1.8
65°	1.4	1.4	1.3	1.4	1.4
67.5°	1.2	1.2	0.9	1.2	1.0
70°	0.9	0.9	0.8	0.9	0.9
72.5°	0.6	0.6	0.6	0.6	0.6
75°	0.5	0.5	0.5	0.5	0.5
77.5°	0.4	0.4	0.4	0.4	0.4
80°	0.3	0.3	0.4	0.4	0.4
82.5°	0.3	0.3	0.3	0.3	0.3
85°	0.1	0.3	0.3	0.3	0.3
87.5°	0.1	0.1	0.3	0.3	0.3
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)