

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: P#

Luminaire Tested: **LD4C50D010 EX4C509035 4LCSQWH**

Issue Date: 2/18/2022



Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2105-247-14)
Test Lab: INNOVATION CENTER
Issue Date: 2/18/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C50D010 EX4C509035 4LCSQWH
Description: 4 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LCSQW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

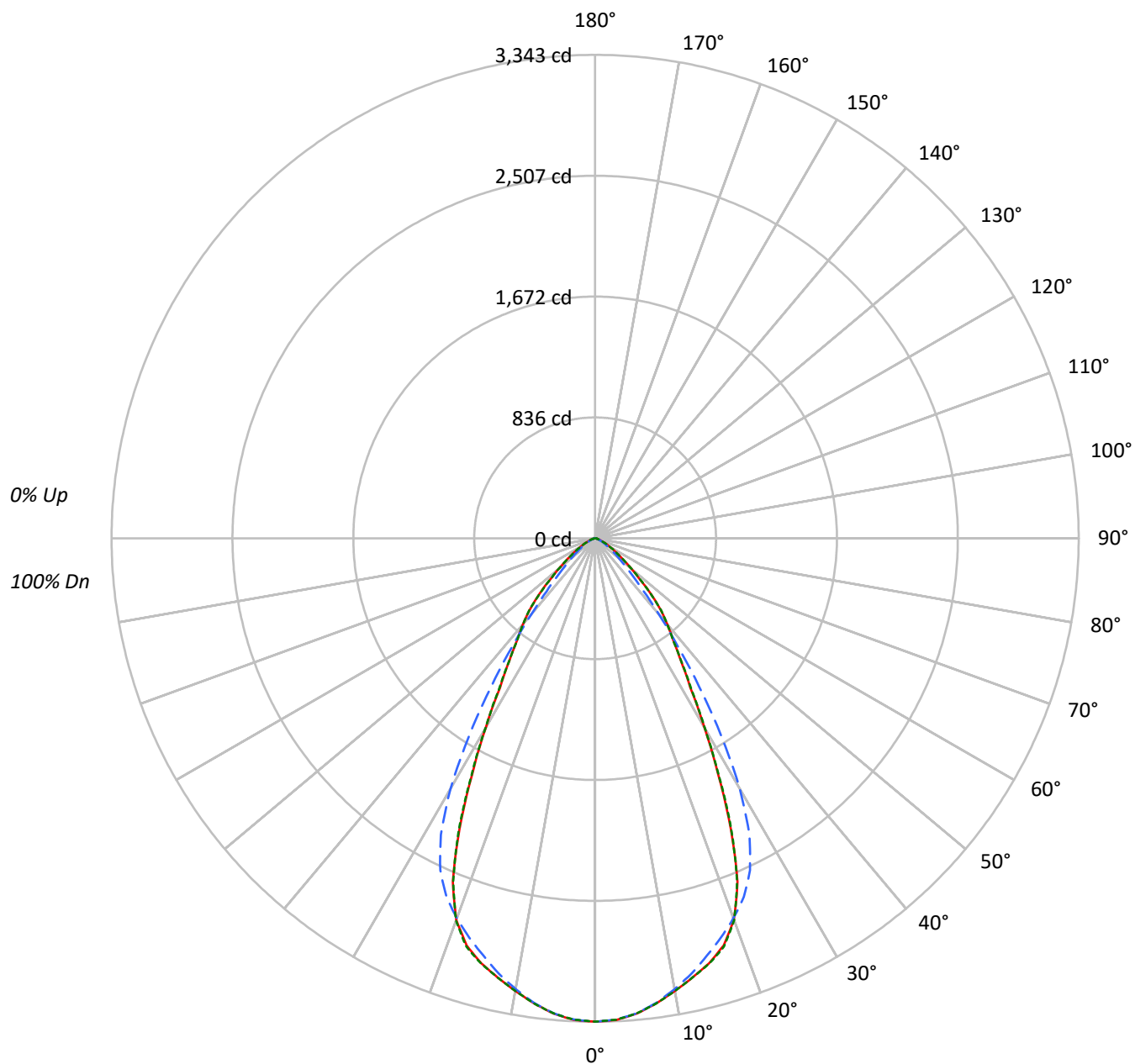
Lumens per Lamp: N/A
Luminaire Lumens: 3538.0 lumens
Efficiency: N/A
Efficacy: 60.6 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 0.93 / 0.94
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 58.4
Input Voltage (V):
Input Current (Ain): 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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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	110	108	105	103	104	102	100	100	98	97	96	95	94	92		
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84		
3	101	93	88	84	98	92	87	83	89	85	82	87	83	80	85	82	79	77		
4	95	87	80	76	93	85	80	75	83	78	74	81	77	74	79	76	73	71		
5	89	80	74	69	88	79	73	69	78	72	68	76	71	68	74	70	67	66		
6	85	75	68	64	83	74	68	63	72	67	63	71	66	63	70	65	62	61		
7	80	70	63	59	79	69	63	59	68	62	58	67	62	58	65	61	58	56		
8	76	65	59	55	74	65	59	54	64	58	54	63	58	54	62	57	54	52		
9	72	61	55	51	71	61	55	51	60	54	51	59	54	50	58	54	50	49		
10	68	58	52	48	67	57	51	47	57	51	47	56	51	47	55	50	47	46		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	322533	322533	322533
5°	319581	319378	319484
10°	311402	310157	311402
15°	303903	298429	304223
20°	288144	287056	288678
25°	236360	269683	237595
30°	168539	222798	168773
35°	121561	147639	121937
40°	97466	85777	97466
45°	74368	50052	73795
50°	49056	31958	48891
55°	32989	21465	32635
60°	22173	14647	22385
65°	15160	10343	14932
70°	10100	7448	10100
75°	6673	5518	6673
80°	4668	4112	4668
85°	3543	3543	3543



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.7	8.8
10°-20°	847.3	23.9
20°-30°	1059.2	29.9
30°-40°	712.6	20.1
40°-50°	376.2	10.6
50°-60°	152.9	4.3
60°-70°	56.7	1.6
70°-80°	18.3	0.5
80°-90°	4.0	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°	2217.3	62.7
0°-40°	2929.8	82.8
0°-60°	3459.0	97.8
0°-90°	3538.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3538.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3343	3343	3343	3343	3343	
5°	3300	3296	3297	3297	3298	311
15°	3042	3017	2988	3016	3046	852
25°	2220	2344	2533	2349	2232	999
35°	1032	1084	1253	1086	1035	664
45°	545	518	367	516	541	418
55°	196	164	128	164	194	182
65°	66	54	45	54	65	68
75°	18	16	15	16	18	21
85°	3	3	3	3	3	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3342.7	3342.7	3342.7	3342.7	3342.7
2.5°	3334.3	3332.2	3331.1	3331.1	3332.2
5°	3299.5	3296.4	3297.4	3297.4	3298.5
7.5°	3243.7	3242.6	3239.4	3243.7	3243.7
10°	3178.3	3173.0	3165.6	3174.1	3178.3
12.5°	3110.8	3095.0	3082.4	3095.0	3110.8
15°	3042.3	3017.0	2987.5	3016.0	3045.5
17.5°	2952.7	2927.4	2894.7	2932.7	2961.1
20°	2806.2	2808.3	2795.6	2806.2	2811.4
22.5°	2571.1	2618.5	2684.9	2619.6	2563.7
25°	2220.1	2344.5	2533.1	2348.7	2231.7
27.5°	1843.7	2001.9	2310.7	2011.3	1855.3
30°	1512.7	1652.9	1999.7	1662.4	1514.8
32.5°	1224.9	1329.3	1625.5	1341.9	1238.6
35°	1032.0	1083.7	1253.4	1085.8	1035.2
37.5°	884.4	884.4	930.8	888.7	880.2
40°	773.8	740.0	681.0	739.0	773.8
42.5°	670.4	619.8	494.4	617.7	672.6
45°	545.0	517.6	366.8	515.5	540.8
47.5°	418.5	399.5	276.2	397.4	421.7
50°	326.8	297.3	212.9	295.2	325.7
52.5°	250.9	219.3	164.4	219.3	248.8
55°	196.1	164.4	127.6	164.4	194.0
57.5°	150.7	125.4	97.0	123.3	149.7
60°	114.9	93.8	75.9	93.8	116.0
62.5°	87.5	71.7	58.0	70.6	86.4
65°	66.4	53.8	45.3	53.8	65.4
67.5°	48.5	40.1	34.8	40.1	49.5
70°	35.8	30.6	26.4	29.5	35.8
72.5°	26.4	22.1	20.0	22.1	26.4
75°	17.9	15.8	14.8	15.8	17.9
77.5°	12.6	11.6	10.5	11.6	12.6
80°	8.4	7.4	7.4	8.4	8.4
82.5°	5.3	5.3	5.3	5.3	5.3
85°	3.2	3.2	3.2	3.2	3.2
87.5°	2.1	2.1	2.1	2.1	2.1
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)