

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: **LD4C30D010 EX4C309050 4LCSQWH**

Issue Date: 2/18/2022

**Test Information**

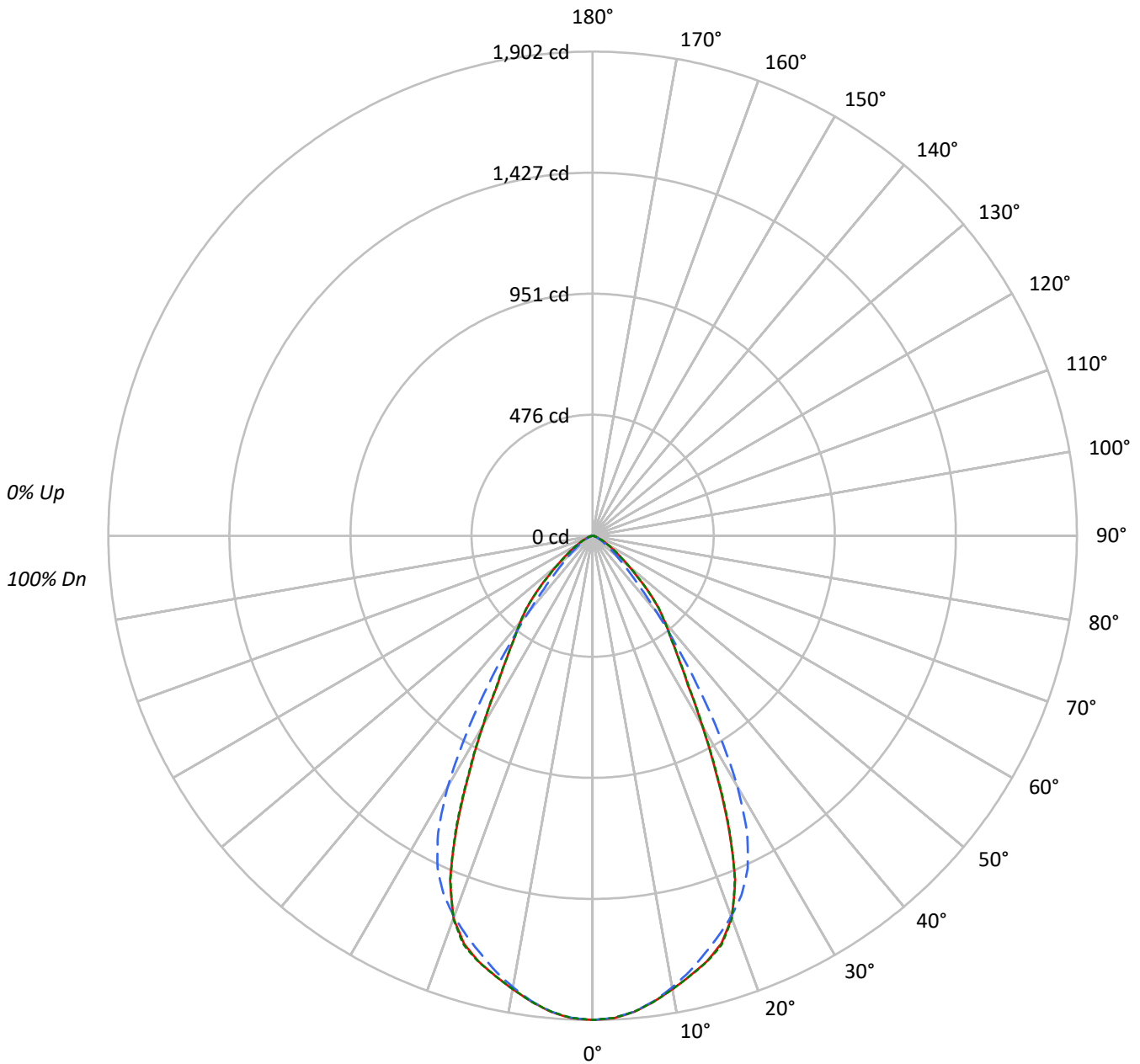
Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2105-247-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/18/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C30D010 EX4C309050 4LCSQWH  
Description: 4 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 4LCSQW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2013.0 lumens  
Efficiency: N/A  
Efficacy: 63.7 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): 31.6  
Input Voltage (V):  
Input Current (A<sub>in</sub>): 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	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°	183512	183512	183512
5°	181831	181714	181772
10°	177173	176467	177173
15°	172914	169798	173094
20°	163941	163325	164249
25°	134474	153446	135177
30°	95896	126769	96029
35°	69167	83997	69379
40°	55446	48808	55446
45°	42315	28478	41987
50°	27905	18193	27815
55°	18774	12213	18572
60°	12621	8337	12737
65°	8630	5890	8493
70°	5755	4232	5755
75°	3803	3132	3803
80°	2667	2334	2667
85°	1993	1993	1993



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	176.8	8.8
10°-20°	482.1	23.9
20°-30°	602.7	29.9
30°-40°	405.4	20.1
40°-50°	214.1	10.6
50°-60°	87.0	4.3
60°-70°	32.3	1.6
70°-80°	10.4	0.5
80°-90°	2.2	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°	1261.6	62.7
0°-40°	1667.0	82.8
0°-60°	1968.1	97.8
0°-90°	2013.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2013.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1902	1902	1902	1902	1902	
5°	1877	1876	1876	1876	1877	177
15°	1731	1717	1700	1716	1733	485
25°	1263	1334	1441	1336	1270	569
35°	587	617	713	618	589	378
45°	310	294	209	293	308	238
55°	112	94	73	94	110	103
65°	38	31	26	31	37	39
75°	10	9	8	9	10	12
85°	2	2	2	2	2	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1901.9	1901.9	1901.9	1901.9	1901.9
2.5°	1897.1	1895.9	1895.3	1895.3	1895.9
5°	1877.3	1875.5	1876.1	1876.1	1876.7
7.5°	1845.5	1844.9	1843.1	1845.5	1845.5
10°	1808.3	1805.3	1801.1	1805.9	1808.3
12.5°	1770.0	1761.0	1753.8	1761.0	1770.0
15°	1731.0	1716.6	1699.8	1716.0	1732.8
17.5°	1680.0	1665.6	1647.0	1668.6	1684.8
20°	1596.6	1597.8	1590.6	1596.6	1599.6
22.5°	1462.9	1489.9	1527.6	1490.5	1458.7
25°	1263.1	1333.9	1441.3	1336.3	1269.7
27.5°	1049.0	1139.0	1314.7	1144.4	1055.6
30°	860.7	940.5	1137.8	945.9	861.9
32.5°	696.9	756.3	924.9	763.5	704.7
35°	587.2	616.6	713.1	617.8	589.0
37.5°	503.2	503.2	529.6	505.6	500.8
40°	440.2	421.0	387.5	420.4	440.2
42.5°	381.5	352.7	281.3	351.5	382.7
45°	310.1	294.5	208.7	293.3	307.7
47.5°	238.1	227.3	157.1	226.1	239.9
50°	185.9	169.1	121.2	167.9	185.3
52.5°	142.7	124.8	93.6	124.8	141.5
55°	111.6	93.6	72.6	93.6	110.4
57.5°	85.8	71.4	55.2	70.2	85.2
60°	65.4	53.4	43.2	53.4	66.0
62.5°	49.8	40.8	33.0	40.2	49.2
65°	37.8	30.6	25.8	30.6	37.2
67.5°	27.6	22.8	19.8	22.8	28.2
70°	20.4	17.4	15.0	16.8	20.4
72.5°	15.0	12.6	11.4	12.6	15.0
75°	10.2	9.0	8.4	9.0	10.2
77.5°	7.2	6.6	6.0	6.6	7.2
80°	4.8	4.2	4.2	4.8	4.8
82.5°	3.0	3.0	3.0	3.0	3.0
85°	1.8	1.8	1.8	1.8	1.8
87.5°	1.2	1.2	1.2	1.2	1.2
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)