

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: **LD4C35D010 EX4C359040 4LCSQWH**

Issue Date: 2/18/2022

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



**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: LD4C35D010 EX4C359040 4LCSQWH  
Description: 4 INCH 3500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 4LCSQW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

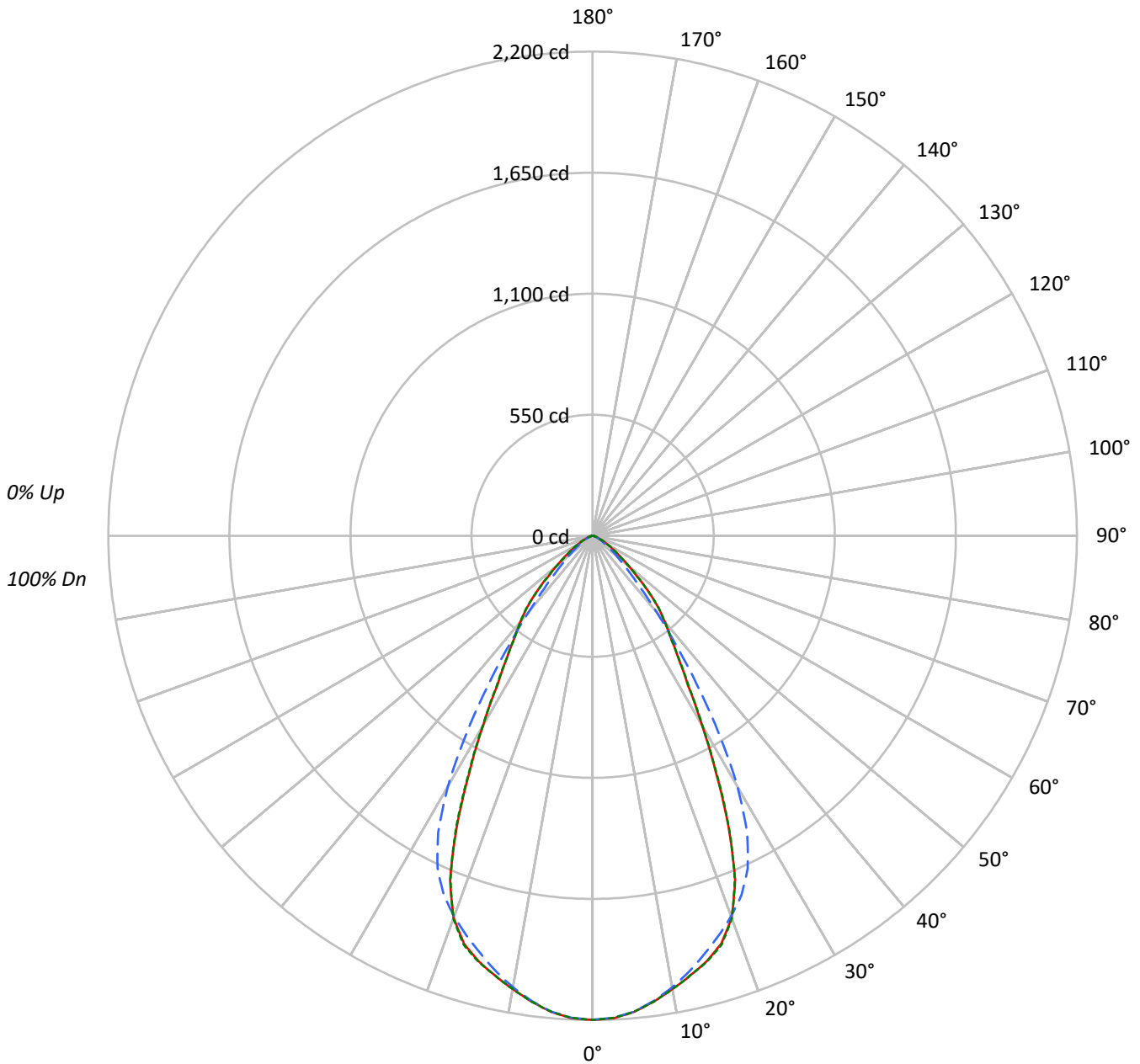
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2328.0 lumens  
Efficiency: N/A  
Efficacy: 57.6 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): 40.4  
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									
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°	212227	212227	212227
5°	210287	210152	210219
10°	204900	204087	204900
15°	199965	196369	200175
20°	189601	188882	189950
25°	155522	177454	156331
30°	110903	146601	111059
35°	79992	97142	80239
40°	64125	56441	64125
45°	48933	32940	48551
50°	32274	21030	32169
55°	21701	14114	21465
60°	14589	9630	14724
65°	9977	6804	9817
70°	6658	4881	6658
75°	4399	3616	4399
80°	3056	2723	3056
85°	2325	2325	2325



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	204.5	8.8
10°-20°	557.5	23.9
20°-30°	697.0	29.9
30°-40°	468.9	20.1
40°-50°	247.6	10.6
50°-60°	100.6	4.3
60°-70°	37.3	1.6
70°-80°	12.0	0.5
80°-90°	2.6	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°	1459.0	62.7
0°-40°	1927.8	82.8
0°-60°	2276.0	97.8
0°-90°	2328.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2328.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2200	2200	2200	2200	2200	
5°	2171	2169	2170	2170	2170	205
15°	2002	1985	1966	1984	2004	561
25°	1461	1543	1667	1545	1468	658
35°	679	713	825	714	681	437
45°	359	341	241	339	356	275
55°	129	108	84	108	128	120
65°	44	35	30	35	43	45
75°	12	10	10	10	12	14
85°	2	2	2	2	2	3
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2199.5	2199.5	2199.5	2199.5	2199.5
2.5°	2194.0	2192.6	2191.9	2191.9	2192.6
5°	2171.1	2169.0	2169.7	2169.7	2170.4
7.5°	2134.3	2133.6	2131.5	2134.3	2134.3
10°	2091.3	2087.8	2083.0	2088.5	2091.3
12.5°	2046.9	2036.5	2028.2	2036.5	2046.9
15°	2001.8	1985.2	1965.8	1984.5	2003.9
17.5°	1942.9	1926.2	1904.7	1929.7	1948.4
20°	1846.5	1847.8	1839.5	1846.5	1849.9
22.5°	1691.8	1723.0	1766.7	1723.7	1686.9
25°	1460.8	1542.6	1666.8	1545.4	1468.4
27.5°	1213.2	1317.2	1520.5	1323.5	1220.8
30°	995.4	1087.6	1315.8	1093.9	996.8
32.5°	806.0	874.7	1069.6	883.0	815.0
35°	679.1	713.1	824.7	714.4	681.2
37.5°	582.0	582.0	612.5	584.7	579.2
40°	509.1	486.9	448.1	486.2	509.1
42.5°	441.2	407.9	325.3	406.5	442.5
45°	358.6	340.6	241.4	339.2	355.8
47.5°	275.4	262.9	181.7	261.5	277.5
50°	215.0	195.6	140.1	194.2	214.3
52.5°	165.1	144.3	108.2	144.3	163.7
55°	129.0	108.2	83.9	108.2	127.6
57.5°	99.2	82.5	63.8	81.2	98.5
60°	75.6	61.7	49.9	61.7	76.3
62.5°	57.6	47.2	38.2	46.5	56.9
65°	43.7	35.4	29.8	35.4	43.0
67.5°	31.9	26.4	22.9	26.4	32.6
70°	23.6	20.1	17.3	19.4	23.6
72.5°	17.3	14.6	13.2	14.6	17.3
75°	11.8	10.4	9.7	10.4	11.8
77.5°	8.3	7.6	6.9	7.6	8.3
80°	5.5	4.9	4.9	5.5	5.5
82.5°	3.5	3.5	3.5	3.5	3.5
85°	2.1	2.1	2.1	2.1	2.1
87.5°	1.4	1.4	1.4	1.4	1.4
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)