

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: P563848

Luminaire Tested: **LD4C45D010 EX4C459030 4LCSQWLI**

Issue Date: 2/18/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P563848  
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: LD4C45D010 EX4C459030 4LCSQWLI  
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 4LCSQW TRIM WITH LI FINISH, DIM TO WARM  
Light Source: -  
Ballast/Driver: -

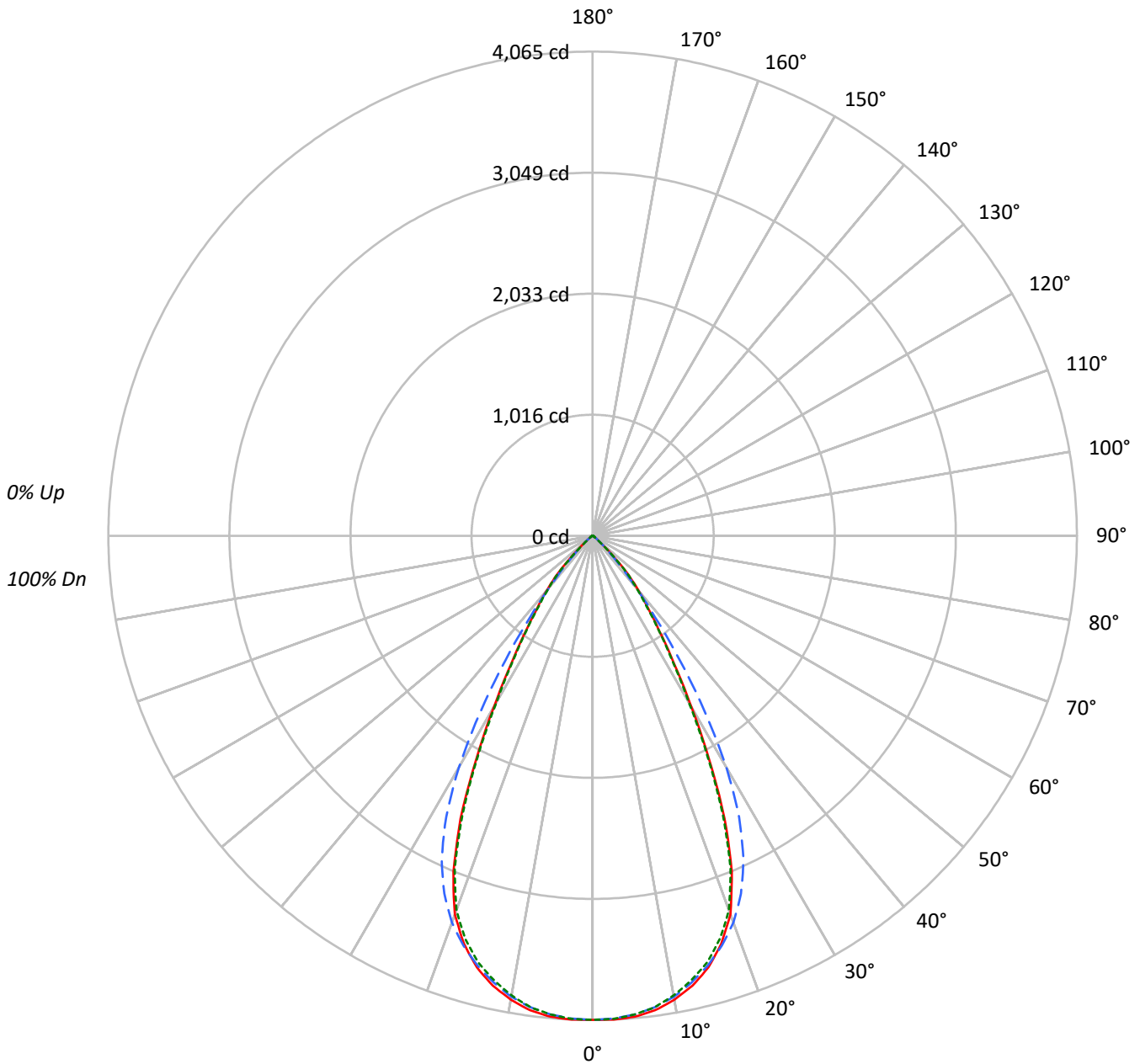
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3638.5 lumens  
Efficiency: N/A  
Efficacy: 73.4 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): 49.6  
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					20					
RC	80					70					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				100				
1	114	111	108	106	111	109	106	104	105	103	101	101	100	98	97	96	95	94				94				
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87				87				
3	103	96	91	88	101	95	90	87	92	89	85	90	87	84	88	85	83	81				81				
4	98	90	85	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76				76				
5	93	84	79	74	91	84	78	74	82	77	73	80	76	73	79	75	72	71				71				
6	88	79	73	69	87	79	73	69	77	72	68	76	71	68	74	71	68	66				66				
7	84	75	69	65	82	74	68	64	73	68	64	71	67	64	70	66	63	62				62				
8	80	70	64	60	79	70	64	60	69	64	60	68	63	60	67	63	59	58				58				
9	76	66	61	57	75	66	60	57	65	60	56	64	60	56	63	59	56	55				55				
10	72	63	57	53	71	62	57	53	62	57	53	61	56	53	60	56	53	52				52				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	392160	392160	392160
5°	392573	390762	390762
10°	387422	385130	383944
15°	374847	373079	370552
20°	347155	354723	343315
25°	279116	319082	275443
30°	184237	250184	179858
35°	115141	150231	113056
40°	75146	69617	72211
45°	36188	27769	34141
50°	9112	11063	8556
55°	5030	4559	4878
60°	3416	2895	3242
65°	2352	2146	2352
70°	1834	1580	1834
75°	1417	1417	1417
80°	1000	1556	1556
85°	996	1993	1993



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	382.2	10.5
10°-20°	1043.8	28.7
20°-30°	1243.9	34.2
30°-40°	704.4	19.4
40°-50°	217.8	6.0
50°-60°	30.3	0.8
60°-70°	10.3	0.3
70°-80°	4.1	0.1
80°-90°	1.7	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°	2670.0	73.4
0°-40°	3374.3	92.7
0°-60°	3622.4	99.6
0°-90°	3638.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3638.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4064	4064	4064	4064	4064	
5°	4053	4044	4034	4032	4034	384
15°	3752	3746	3735	3720	3710	1046
25°	2622	2775	2997	2780	2587	1169
35°	978	1066	1275	1069	960	636
45°	265	309	204	301	250	219
55°	30	30	27	29	29	29
65°	10	10	9	10	10	11
75°	4	4	4	4	4	4
85°	1	2	2	2	2	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4064.3	4064.3	4064.3	4064.3	4064.3
2.5°	4065.2	4058.7	4056.8	4055.0	4058.7
5°	4053.1	4043.8	4034.4	4031.6	4034.4
7.5°	4018.6	4009.2	3993.3	3989.6	3992.4
10°	3954.2	3945.7	3930.8	3922.4	3918.7
12.5°	3869.1	3855.2	3841.2	3831.8	3822.4
15°	3752.5	3745.9	3734.8	3719.8	3709.5
17.5°	3590.9	3600.3	3606.8	3576.9	3549.8
20°	3380.9	3415.4	3454.6	3393.9	3343.5
22.5°	3053.1	3152.1	3252.0	3137.1	3025.2
25°	2621.7	2774.9	2997.1	2779.6	2587.2
27.5°	2118.5	2312.7	2662.8	2313.6	2090.5
30°	1653.6	1853.3	2245.5	1827.2	1614.3
32.5°	1269.8	1419.2	1754.4	1396.8	1242.7
35°	977.5	1066.2	1275.4	1069.1	959.8
37.5°	760.1	804.8	858.0	788.9	737.6
40°	596.6	598.5	552.7	589.2	573.3
42.5°	442.6	440.7	339.8	429.5	432.3
45°	265.2	309.0	203.5	300.7	250.2
47.5°	126.0	174.6	122.3	165.3	116.7
50°	60.7	84.0	73.7	78.4	57.0
52.5°	41.1	42.9	42.0	41.1	39.3
55°	29.9	29.9	27.1	29.0	29.0
57.5°	22.4	22.4	19.6	21.5	21.5
60°	17.7	16.8	15.0	16.8	16.8
62.5°	13.1	13.1	11.2	13.1	13.1
65°	10.3	10.3	9.4	10.3	10.3
67.5°	8.4	8.4	6.5	8.4	7.4
70°	6.5	6.5	5.6	6.5	6.5
72.5°	4.7	4.7	4.7	4.7	4.7
75°	3.8	3.8	3.8	3.8	3.8
77.5°	2.8	2.8	2.8	2.8	2.8
80°	1.8	1.8	2.8	2.8	2.8
82.5°	1.8	1.8	1.8	1.8	1.8
85°	0.9	1.8	1.8	1.8	1.8
87.5°	0.9	0.9	1.8	1.8	1.8
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)