

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: **LD4C45D010 EX4C459030 4LCSQWLI**

Issue Date: 2/18/2022



**Test Information**

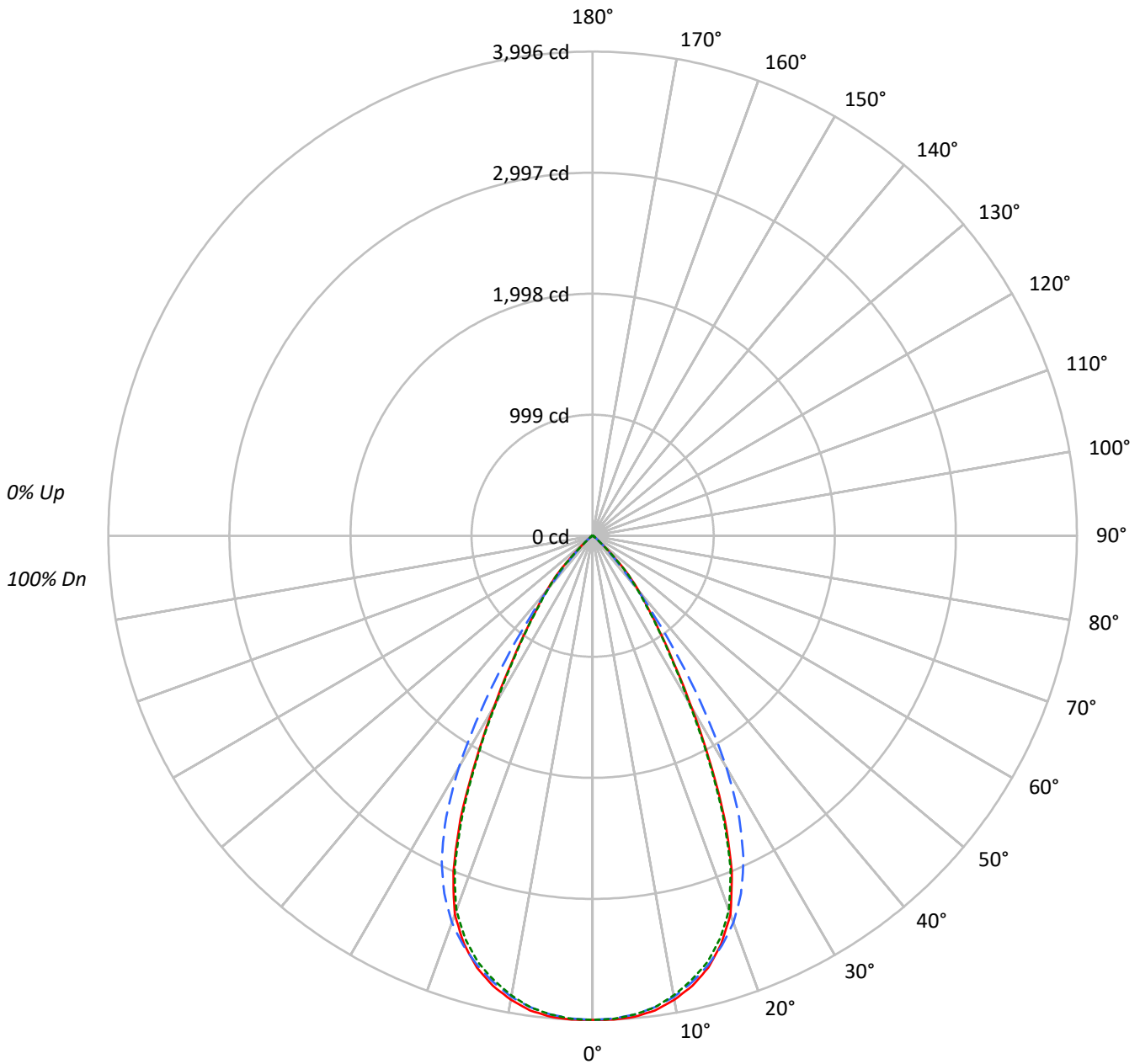
Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2105-247-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/18/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C45D010 EX4C459030 4LCSQWLI  
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 4LCSQW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3577.0 lumens  
Efficiency: N/A  
Efficacy: 72.1 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									
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°	385531	385531	385531
5°	385938	384156	384156
10°	380868	378614	377448
15°	368504	366766	364289
20°	341282	348726	337514
25°	274400	313685	270790
30°	181117	245950	176817
35°	113197	147687	111148
40°	73874	68445	70990
45°	35574	27305	33568
50°	8962	10883	8406
55°	4946	4475	4794
60°	3358	2837	3184
65°	2306	2100	2306
70°	1806	1552	1806
75°	1379	1379	1379
80°	1000	1556	1556
85°	996	1993	1993



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	375.8	10.5
10°-20°	1026.2	28.7
20°-30°	1222.9	34.2
30°-40°	692.5	19.4
40°-50°	214.1	6.0
50°-60°	29.7	0.8
60°-70°	10.2	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°	2624.8	73.4
0°-40°	3317.3	92.7
0°-60°	3561.1	99.6
0°-90°	3577.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3577.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3996	3996	3996	3996	3996	
5°	3985	3975	3966	3963	3966	377
15°	3689	3683	3672	3657	3647	1029
25°	2577	2728	2946	2733	2544	1149
35°	961	1048	1254	1051	944	625
45°	261	304	200	296	246	215
55°	29	29	27	28	28	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°	3995.6	3995.6	3995.6	3995.6	3995.6
2.5°	3996.5	3990.1	3988.2	3986.4	3990.1
5°	3984.6	3975.4	3966.2	3963.4	3966.2
7.5°	3950.6	3941.4	3925.8	3922.1	3924.9
10°	3887.3	3879.0	3864.3	3856.1	3852.4
12.5°	3803.7	3790.0	3776.2	3767.0	3757.8
15°	3689.0	3682.6	3671.6	3656.9	3646.8
17.5°	3530.2	3539.4	3545.8	3516.4	3489.8
20°	3323.7	3357.6	3396.2	3336.5	3287.0
22.5°	3001.5	3098.8	3197.0	3084.1	2974.0
25°	2577.4	2728.0	2946.4	2732.6	2543.5
27.5°	2082.7	2273.6	2617.8	2274.5	2055.2
30°	1625.6	1822.0	2207.5	1796.3	1587.0
32.5°	1248.3	1395.2	1724.7	1373.2	1221.7
35°	961.0	1048.2	1253.8	1051.0	943.6
37.5°	747.2	791.2	843.5	775.6	725.1
40°	586.5	588.4	543.4	579.2	563.6
42.5°	435.1	433.2	334.1	422.2	425.0
45°	260.7	303.8	200.1	295.6	246.0
47.5°	123.9	171.6	120.2	162.5	114.7
50°	59.7	82.6	72.5	77.1	56.0
52.5°	40.4	42.2	41.3	40.4	38.6
55°	29.4	29.4	26.6	28.5	28.5
57.5°	22.0	22.0	19.3	21.1	21.1
60°	17.4	16.5	14.7	16.5	16.5
62.5°	12.9	12.9	11.0	12.9	12.9
65°	10.1	10.1	9.2	10.1	10.1
67.5°	8.3	8.3	6.4	8.3	7.3
70°	6.4	6.4	5.5	6.4	6.4
72.5°	4.6	4.6	4.6	4.6	4.6
75°	3.7	3.7	3.7	3.7	3.7
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)