

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: P858193

Luminaire Tested: **LX4C45D010 EX4C459050 4LBMLI**

Issue Date: 1/26/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P858193  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P208279)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/26/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LX4C45D010 EX4C459050 4LBMLI  
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 4LBM TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver:

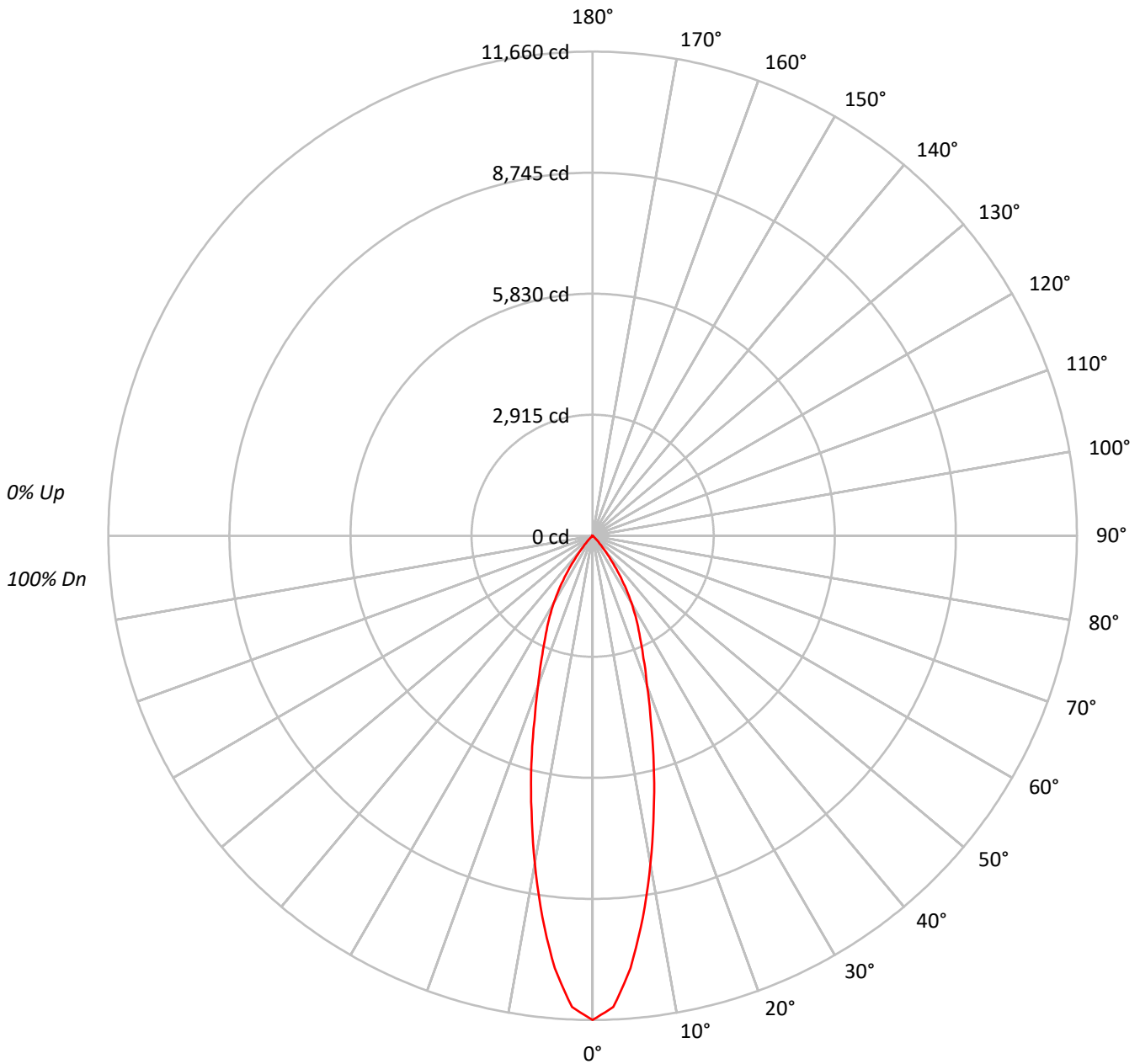
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4531.0 lumens  
Efficiency: N/A  
Efficacy: 91.4 lumens/watt  
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.54  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 49.6  
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			100																
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95			95																
2	109	105	102	99	107	103	100	98	100	98	95	97	95	93	95	93	92	90			90																
3	105	99	95	92	103	98	94	91	95	92	89	93	90	88	91	89	87	85			85																
4	101	94	89	86	99	93	88	85	91	87	84	89	86	83	87	84	82	81			81																
5	96	89	84	80	95	88	84	80	87	82	79	85	81	79	83	80	78	77			77																
6	92	85	80	76	91	84	79	76	83	78	75	81	78	75	80	77	74	73			73																
7	89	81	76	72	88	80	75	72	79	75	71	78	74	71	77	73	71	69			69																
8	85	77	72	68	84	77	72	68	76	71	68	75	71	68	74	70	67	66			66																
9	82	74	69	65	81	73	68	65	72	68	65	72	68	65	71	67	64	63			63																
10	79	71	66	62	78	70	65	62	69	65	62	69	65	62	68	64	62	61			61																

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

	0°
0°	1432496
5°	1289093
10°	999337
15°	723314
20°	500831
25°	365128
30°	265290
35°	156980
40°	66026
45°	20588
50°	2676
55°	1499
60°	1720
65°	2035
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	918.9	20.3
10°-20°	1573.1	34.7
20°-30°	1250.3	27.6
30°-40°	661.8	14.6
40°-50°	114.0	2.5
50°-60°	8.6	0.2
60°-70°	4.3	0.1
70°-80°	0.0	0.0
80°-90°	0.0	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°	3742.3	82.6
0°-40°	4404.1	97.2
0°-60°	4526.7	99.9
0°-90°	4531.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4531.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	11660	
5°	10453	919
15°	5687	1573
25°	2694	1250
35°	1047	662
45°	118	114
55°	7	9
65°	7	4
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	11660.2
2.5°	11360.0
5°	10453.0
7.5°	9266.8
10°	8010.8
12.5°	6796.6
15°	5687.0
17.5°	4654.2
20°	3830.8
22.5°	3202.8
25°	2693.6
27.5°	2281.8
30°	1870.1
32.5°	1451.4
35°	1046.7
37.5°	690.9
40°	411.7
42.5°	237.3
45°	118.5
47.5°	41.9
50°	14.0
52.5°	14.0
55°	7.0
57.5°	7.0
60°	7.0
62.5°	7.0
65°	7.0
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)