

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: P839309

Luminaire Tested: **LD4C45D010 EU4459050 4LBSH**

Issue Date: 2/14/2022

Test Information

Test Method: LM-79-08
Report Number: P839309
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P205729)
Test Lab: INNOVATION CENTER
Issue Date: 2/14/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C45D010 EU4459050 4LBSH
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBS TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

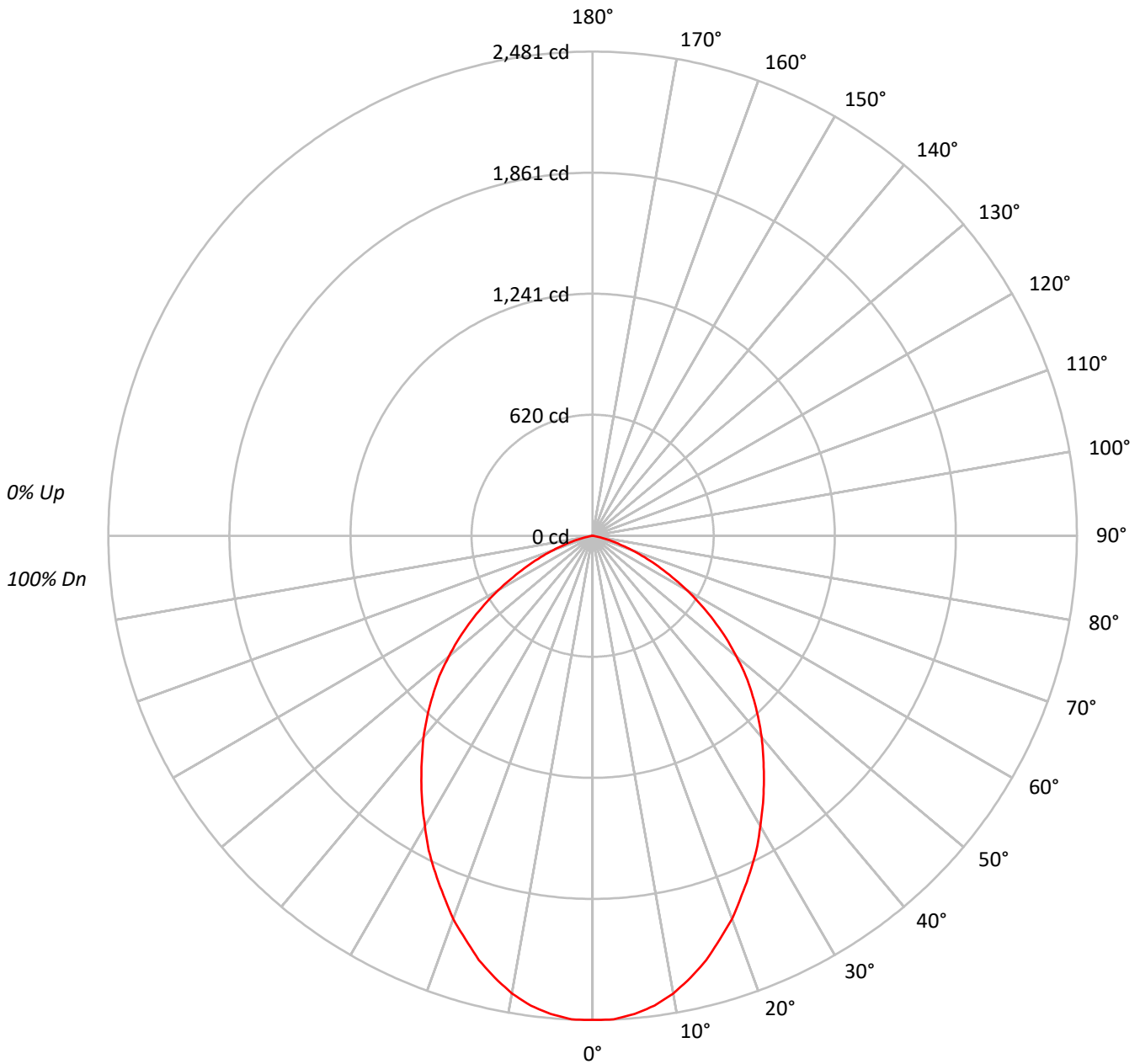
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4743.0 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 49.6
Input Voltage (V):
Input Current (A_{in}): 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

TEST NUMBER: P839309
CATALOG NUMBER: LD4C45D010 EU4459050 4LBSH

Luminous Intensity Polar Plot





TEST NUMBER: P839309

CATALOG NUMBER: LD4C45D010 EU4459050 4LBSH

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			
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88			
2	102	96	90	85	100	94	88	84	90	86	82	87	83	80	84	81	79	77			
3	95	85	78	73	92	84	77	72	81	75	71	78	74	70	76	72	69	67			
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58			
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	51			
6	75	63	55	49	73	62	54	49	60	54	49	59	53	48	57	52	48	46			
7	70	58	50	44	68	57	49	44	55	49	44	54	48	43	53	47	43	41			
8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37			
9	61	49	41	36	60	48	41	36	47	40	36	46	40	36	45	40	35	34			
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	37	33	31			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	304750
5°	303337
10°	297077
15°	286273
20°	273098
25°	258379
30°	243728
35°	229479
40°	216072
45°	201418
50°	183653
55°	162205
60°	137301
65°	107790
70°	76941
75°	42151
80°	7429
85°	0



TEST NUMBER: P839309

CATALOG NUMBER: LD4C45D010 EU4459050 4LBSH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.4	4.9
10°-20°	631.5	13.3
20°-30°	877.0	18.5
30°-40°	957.1	20.2
40°-50°	892.8	18.8
50°-60°	677.6	14.3
60°-70°	371.1	7.8
70°-80°	102.1	2.2
80°-90°	1.4	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°	1740.9	36.7
0°-40°	2698.0	56.9
0°-60°	4268.4	90.0
0°-90°	4743.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4743.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2481	
5°	2460	232
15°	2251	632
25°	1906	877
35°	1530	957
45°	1159	893
55°	757	678
65°	371	371
75°	89	102
85°	0	1
90°	0	



TEST NUMBER: P839309

CATALOG NUMBER: LD4C45D010 EU4459050 4LBSH

CANDELA DISTRIBUTION (FULL):

	0°
0°	2480.6
2.5°	2480.6
5°	2459.7
7.5°	2428.4
10°	2381.4
12.5°	2318.7
15°	2250.8
17.5°	2167.3
20°	2088.9
22.5°	1994.9
25°	1906.1
27.5°	1817.4
30°	1718.1
32.5°	1624.1
35°	1530.1
37.5°	1436.1
40°	1347.3
42.5°	1253.3
45°	1159.3
47.5°	1065.3
50°	960.9
52.5°	861.6
55°	757.3
57.5°	658.0
60°	558.8
62.5°	459.6
65°	370.8
67.5°	287.2
70°	214.2
72.5°	146.2
75°	88.8
77.5°	41.7
80°	10.5
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180°







(END OF REPORT)