

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: P840064

Luminaire Tested: **LDS4C45D010 EU4459030 4LBSWH**

Issue Date: 8/24/2022



Test Information

Test Method: LM-79-08
Report Number: P840064
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P205729)
Test Lab: INNOVATION CENTER
Issue Date: 8/24/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LDS4C45D010 EU4459030 4LBSWH
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBS TRIM WITH WH FINISH
Light Source: -
Ballast/Driver: -

Summary

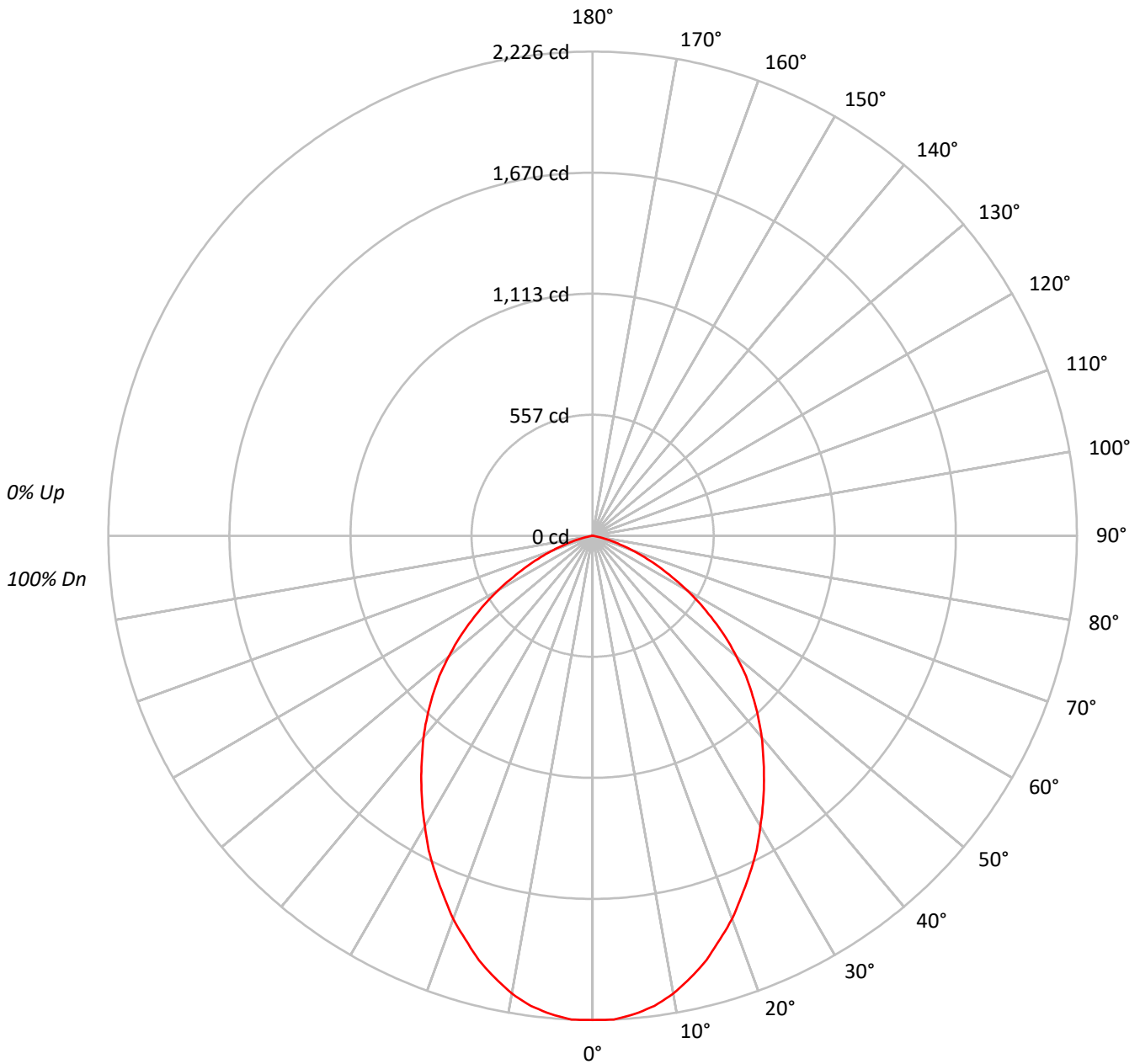
Lumens per Lamp: N/A
Luminaire Lumens: 4257.0 lumens
Efficiency: N/A
Efficacy: 85.8 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

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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			
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°	273521
5°	272247
10°	266638
15°	256944
20°	245107
25°	231905
30°	218747
35°	205963
40°	193924
45°	180778
50°	164846
55°	145584
60°	123222
65°	96744
70°	69038
75°	37831
80°	6650
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.5	4.9
10°-20°	566.8	13.3
20°-30°	787.2	18.5
30°-40°	859.0	20.2
40°-50°	801.3	18.8
50°-60°	608.2	14.3
60°-70°	333.0	7.8
70°-80°	91.7	2.2
80°-90°	1.3	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°	1562.5	36.7
0°-40°	2421.5	56.9
0°-60°	3831.0	90.0
0°-90°	4257.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4257.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2226	
5°	2208	209
15°	2020	567
25°	1711	787
35°	1373	859
45°	1040	801
55°	680	608
65°	333	333
75°	80	92
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2226.4
2.5°	2226.4
5°	2207.6
7.5°	2179.6
10°	2137.4
12.5°	2081.2
15°	2020.2
17.5°	1945.2
20°	1874.8
22.5°	1790.5
25°	1710.8
27.5°	1631.2
30°	1542.0
32.5°	1457.7
35°	1373.3
37.5°	1289.0
40°	1209.2
42.5°	1124.9
45°	1040.5
47.5°	956.2
50°	862.5
52.5°	773.4
55°	679.7
57.5°	590.5
60°	501.5
62.5°	412.5
65°	332.8
67.5°	257.7
70°	192.2
72.5°	131.3
75°	79.7
77.5°	37.5
80°	9.4
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)