

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: P840071

Luminaire Tested: **LDS4C45D010 EU4459035 4LBSGPH**

Issue Date: 8/24/2022



Test Information

Test Method: LM-79-08
Report Number: P840071
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2105-247-18)
Test Lab: INNOVATION CENTER
Issue Date: 8/24/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LDS4C45D010 EU4459035 4LBSGPH
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBS TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

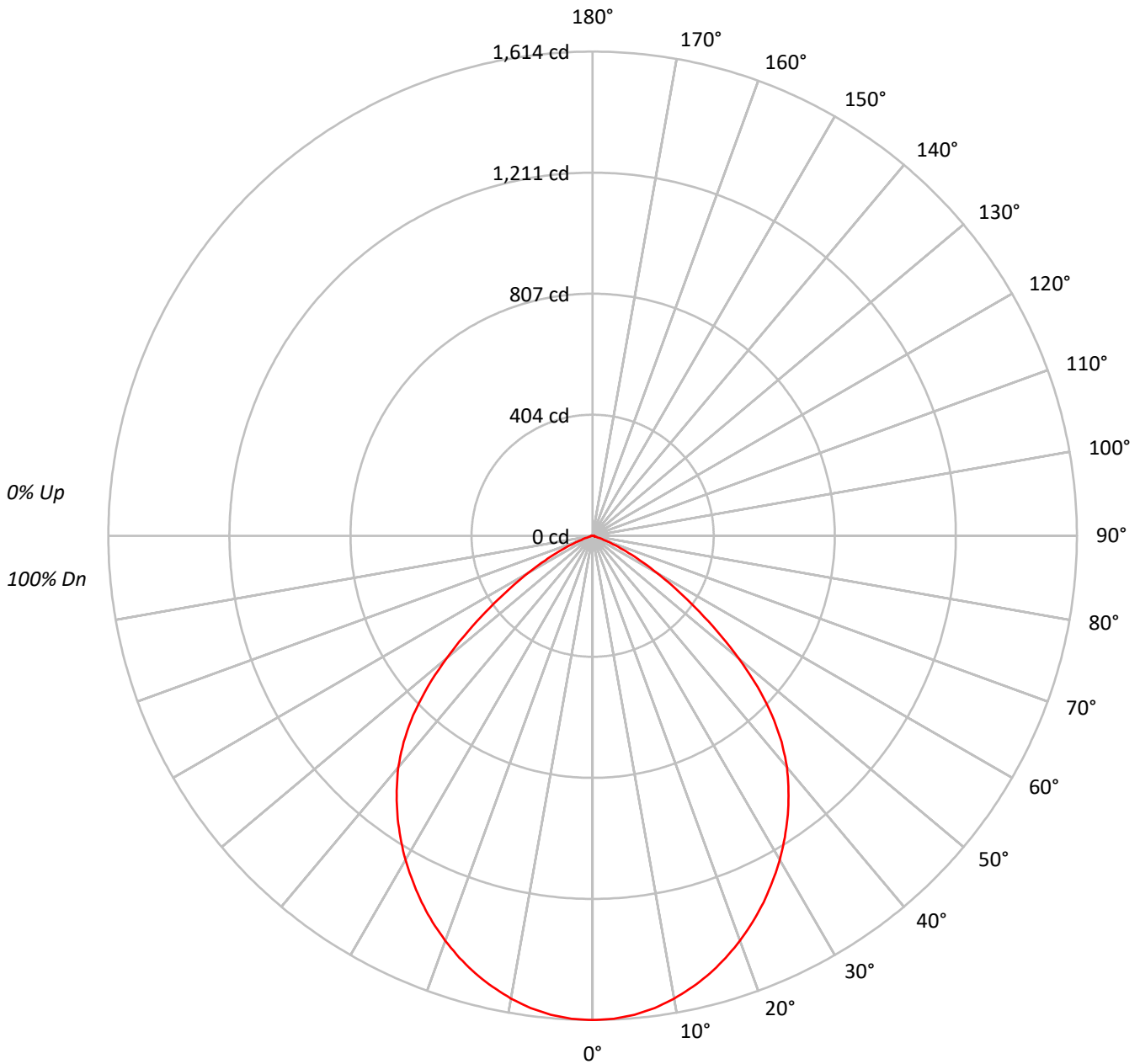
Lumens per Lamp: N/A
Luminaire Lumens: 3074.0 lumens
Efficiency: N/A
Efficacy: 62.0 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79			
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70			
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62			
5	83	72	64	59	81	71	64	58	69	63	58	67	61	57	65	60	57	55			
6	77	65	58	52	75	65	57	52	63	56	52	61	56	51	60	55	51	49			
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44			
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	46	41	40			
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36			
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	198298
5°	197625
10°	195444
15°	192091
20°	187779
25°	182767
30°	177012
35°	170193
40°	161609
45°	146933
50°	121308
55°	89317
60°	60616
65°	35494
70°	14009
75°	3133
80°	4103
85°	7048



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.8	4.9
10°-20°	425.3	13.8
20°-30°	620.3	20.2
30°-40°	708.1	23.0
40°-50°	643.7	20.9
50°-60°	379.6	12.4
60°-70°	127.3	4.1
70°-80°	13.3	0.4
80°-90°	4.7	0.2
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°	1197.4	39.0
0°-40°	1905.5	62.0
0°-60°	2928.8	95.3
0°-90°	3074.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3074.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1614	
5°	1602	152
15°	1510	425
25°	1348	620
35°	1135	708
45°	846	644
55°	417	380
65°	122	127
75°	7	13
85°	5	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1614.1
2.5°	1611.6
5°	1602.5
7.5°	1587.5
10°	1566.7
12.5°	1540.2
15°	1510.3
17.5°	1475.4
20°	1436.3
22.5°	1394.0
25°	1348.3
27.5°	1298.4
30°	1247.8
32.5°	1192.1
35°	1134.8
37.5°	1072.5
40°	1007.7
42.5°	932.1
45°	845.7
47.5°	746.0
50°	634.7
52.5°	523.4
55°	417.0
57.5°	326.5
60°	246.7
62.5°	178.6
65°	122.1
67.5°	74.8
70°	39.0
72.5°	15.0
75°	6.6
77.5°	6.6
80°	5.8
82.5°	5.0
85°	5.0
87.5°	4.2
90°	0.0



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— 0°-180°







(END OF REPORT)