

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: P840034

Luminaire Tested: **LDS4C40D010 EU4409040 4LBSWH**

Issue Date: 8/24/2022



Test Information

Test Method: LM-79-08
Report Number: P840034
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: LDS4C40D010 EU4409040 4LBSWH
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBS TRIM WITH WH FINISH
Light Source: -
Ballast/Driver: -

Summary

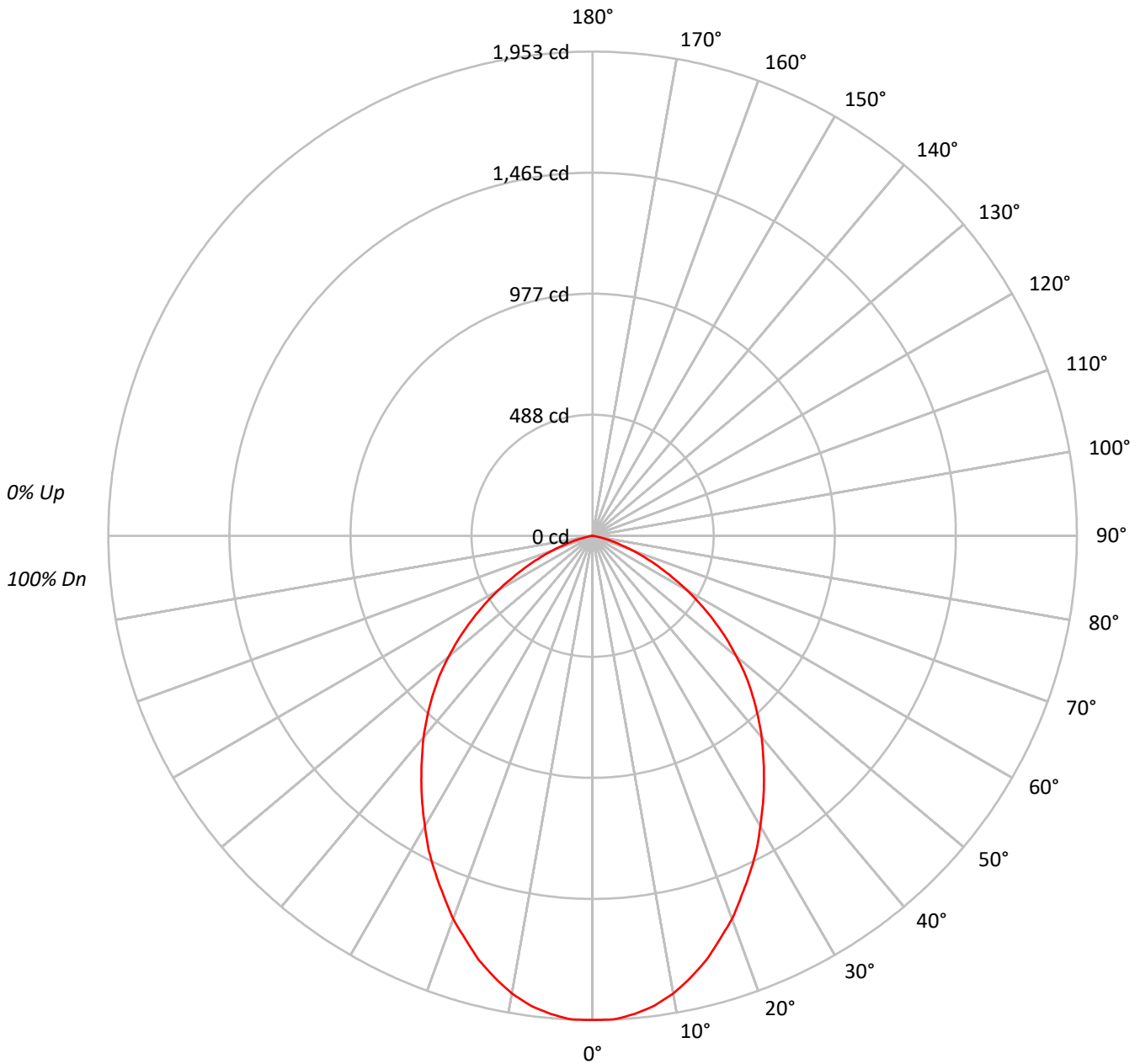
Lumens per Lamp: N/A
Luminaire Lumens: 3734.0 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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: P840034

CATALOG NUMBER: LDS4C40D010 EU4409040 4LBSWH

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	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°	239921
5°	238802
10°	233879
15°	225376
20°	214999
25°	203412
30°	191878
35°	180662
40°	170109
45°	158573
50°	144587
55°	127699
60°	108086
65°	84854
70°	60561
75°	33179
80°	5872
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.9	4.9
10°-20°	497.2	13.3
20°-30°	690.5	18.5
30°-40°	753.5	20.2
40°-50°	702.9	18.8
50°-60°	533.5	14.3
60°-70°	292.1	7.8
70°-80°	80.4	2.2
80°-90°	1.1	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°	1370.6	36.7
0°-40°	2124.0	56.9
0°-60°	3360.4	90.0
0°-90°	3734.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3734.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1953	
5°	1936	183
15°	1772	497
25°	1501	690
35°	1205	753
45°	913	703
55°	596	533
65°	292	292
75°	70	80
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1952.9
2.5°	1952.9
5°	1936.4
7.5°	1911.8
10°	1874.8
12.5°	1825.5
15°	1772.0
17.5°	1706.3
20°	1644.5
22.5°	1570.5
25°	1500.6
27.5°	1430.8
30°	1352.6
32.5°	1278.6
35°	1204.6
37.5°	1130.6
40°	1060.7
42.5°	986.7
45°	912.7
47.5°	838.7
50°	756.5
52.5°	678.3
55°	596.2
57.5°	518.0
60°	439.9
62.5°	361.8
65°	291.9
67.5°	226.1
70°	168.6
72.5°	115.1
75°	69.9
77.5°	32.9
80°	8.3
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)