

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: P840035

Luminaire Tested: **LDS4C40D010 EU4409040 4LBSWMH**

Issue Date: 8/24/2022

Test Information

Test Method: LM-79-08
Report Number: P840035
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 4LBSWMH
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBS TRIM WITH WMH FINISH
Light Source: -
Ballast/Driver: -

Summary

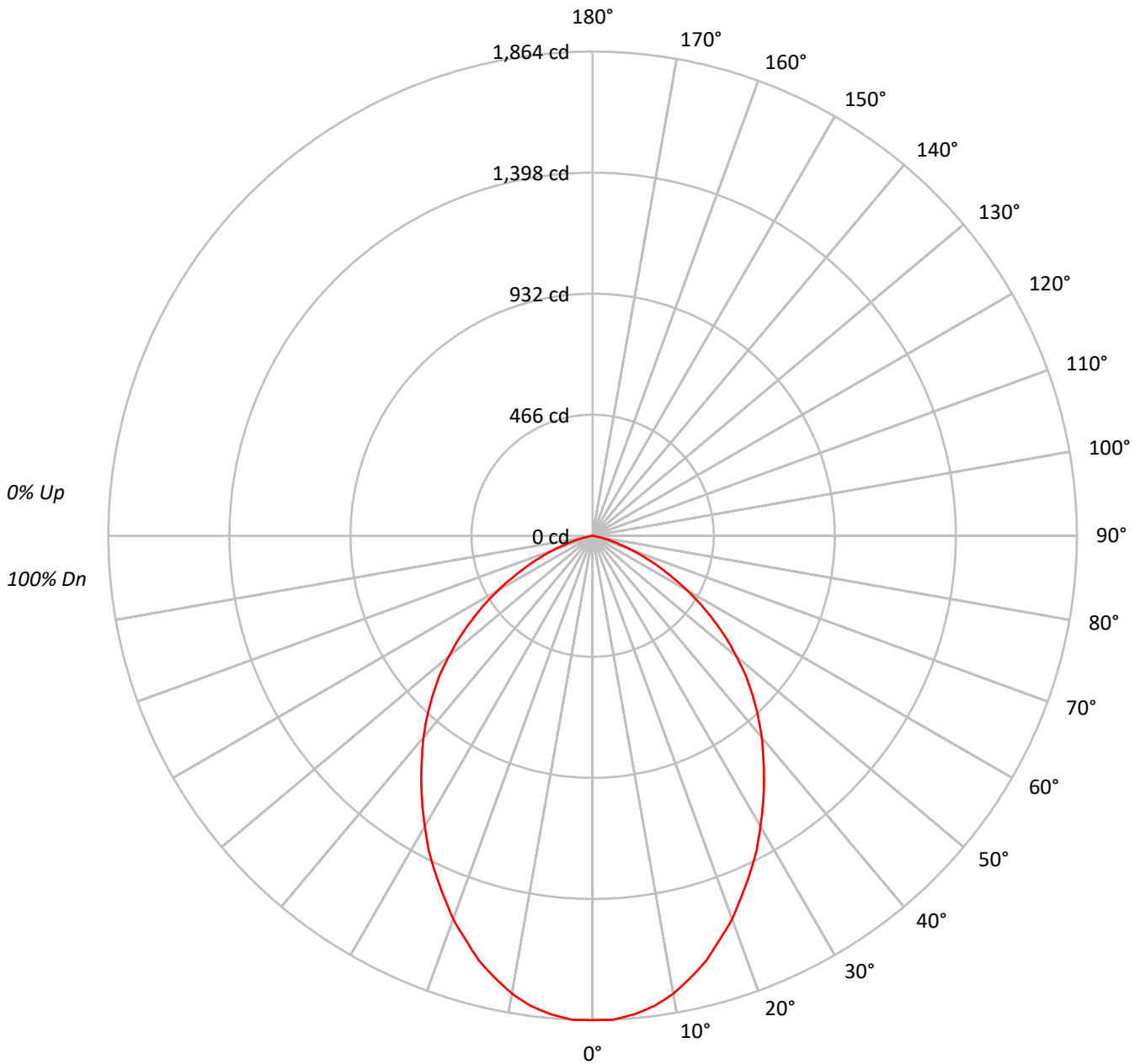
Lumens per Lamp: N/A
Luminaire Lumens: 3565.0 lumens
Efficiency: N/A
Efficacy: 75.9 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P840035

CATALOG NUMBER: LDS4C40D010 EU4409040 4LBSWMH

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°	229060
5°	227999
10°	223288
15°	215175
20°	205272
25°	194208
30°	183197
35°	172488
40°	162411
45°	151398
50°	138050
55°	121916
60°	103197
65°	81017
70°	57831
75°	31708
80°	5589
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.6	4.9
10°-20°	474.7	13.3
20°-30°	659.2	18.5
30°-40°	719.4	20.2
40°-50°	671.0	18.8
50°-60°	509.3	14.3
60°-70°	278.9	7.8
70°-80°	76.8	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°	1308.5	36.7
0°-40°	2027.9	56.9
0°-60°	3208.3	90.0
0°-90°	3565.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3565.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1864	
5°	1849	175
15°	1692	475
25°	1433	659
35°	1150	719
45°	871	671
55°	569	509
65°	279	279
75°	67	77
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1864.5
2.5°	1864.5
5°	1848.8
7.5°	1825.3
10°	1789.9
12.5°	1742.8
15°	1691.8
17.5°	1629.0
20°	1570.1
22.5°	1499.4
25°	1432.7
27.5°	1366.0
30°	1291.4
32.5°	1220.7
35°	1150.1
37.5°	1079.4
40°	1012.7
42.5°	942.0
45°	871.4
47.5°	800.7
50°	722.3
52.5°	647.6
55°	569.2
57.5°	494.5
60°	420.0
62.5°	345.5
65°	278.7
67.5°	215.8
70°	161.0
72.5°	109.9
75°	66.8
77.5°	31.4
80°	7.9
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)