

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: P840082

Luminaire Tested: **LDS4C45D010 EU4459040 4LBSH**

Issue Date: 8/24/2022



Test Information

Test Method: LM-79-08
Report Number: P840082
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 EU4459040 4LBSH
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBS TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

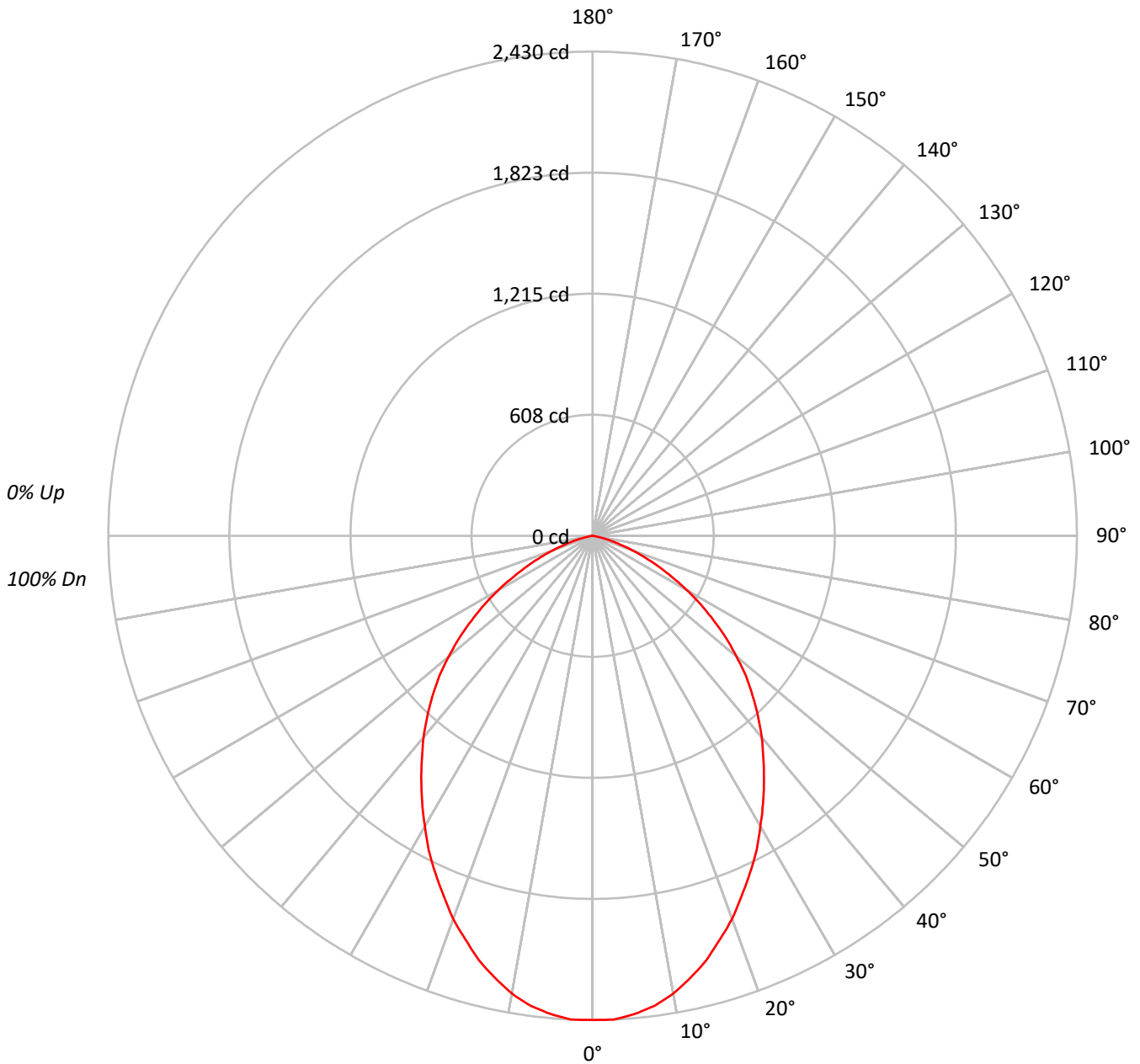
Lumens per Lamp: N/A
Luminaire Lumens: 4647.0 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P840082

CATALOG NUMBER: LDS4C45D010 EU4459040 4LBSH

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°	298571
5°	297196
10°	291064
15°	280486
20°	267568
25°	253147
30°	238791
35°	224830
40°	211693
45°	197335
50°	179945
55°	158906
60°	134525
65°	105610
70°	75360
75°	41296
80°	7287
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.6	4.9
10°-20°	618.8	13.3
20°-30°	859.3	18.5
30°-40°	937.7	20.2
40°-50°	874.7	18.8
50°-60°	663.9	14.3
60°-70°	363.6	7.8
70°-80°	100.0	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°	1705.7	36.7
0°-40°	2643.4	56.9
0°-60°	4182.0	90.0
0°-90°	4647.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4647.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2430	
5°	2410	228
15°	2205	619
25°	1868	859
35°	1499	938
45°	1136	875
55°	742	664
65°	363	364
75°	87	100
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2430.3
2.5°	2430.3
5°	2409.9
7.5°	2379.3
10°	2333.2
12.5°	2271.8
15°	2205.3
17.5°	2123.5
20°	2046.6
22.5°	1954.5
25°	1867.5
27.5°	1780.6
30°	1683.3
32.5°	1591.2
35°	1499.1
37.5°	1407.0
40°	1320.0
42.5°	1227.9
45°	1135.8
47.5°	1043.8
50°	941.5
52.5°	844.2
55°	741.9
57.5°	644.6
60°	547.5
62.5°	450.3
65°	363.3
67.5°	281.4
70°	209.8
72.5°	143.3
75°	87.0
77.5°	40.9
80°	10.3
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)