

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: PORTFOLIO

Report Number: P778999

Luminaire Tested: LER4D05D010-EC4DR450210IC9024-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P778999
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D05D010-EC4DR450210IC9024-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 45° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 567.5 lumens
Efficiency: N/A
Efficacy: 75.7 lumens/watt
Spacing Criteria (0/90/45): 0.75 / 0.75 / 0.69
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 7.5
Input Voltage (V): NR
Input Current (Ain): 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: 24 FT



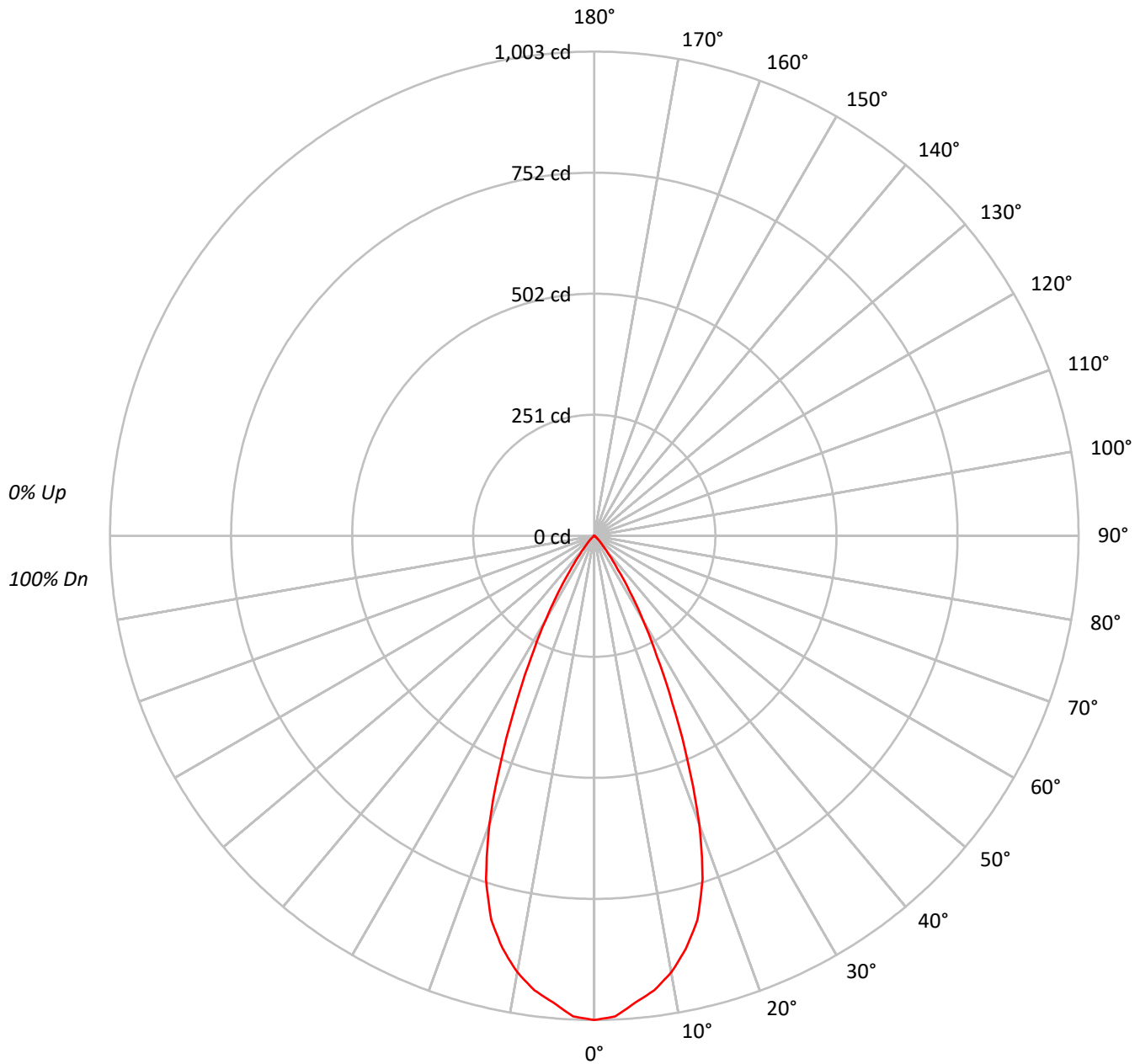
Downlight



TEST NUMBER: P778999

CATALOG NUMBER: LER4D05D010-EC4DR450210IC9024-4LBS1MW

Luminous Intensity Polar Plot





TEST NUMBER: P778999

CATALOG NUMBER: LER4D05D010-EC4DR450210IC9024-4LBS1MW

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	114	112	110	108	112	110	108	106	106	104	103		102	101	100		98
2	109	105	102	99	107	103	100	98	100	98	95		97	95	93		95
3	105	99	95	91	103	98	94	91	95	92	89		93	90	88		91
4	100	94	89	85	99	93	88	85	91	87	84		89	86	83		87
5	96	89	84	80	95	88	83	80	86	82	79		85	81	79		83
6	92	85	80	76	91	84	79	76	83	78	75		81	77	75		80
7	89	81	75	72	87	80	75	72	79	74	71		78	74	71		77
8	85	77	72	68	84	76	71	68	75	71	68		74	70	67		73
9	82	73	68	65	81	73	68	65	72	68	65		71	67	64		71
10	79	70	65	62	78	70	65	62	69	65	62		68	64	61		68

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	109599
5°	106476
10°	101871
15°	93229
20°	73961
25°	46173
30°	25447
35°	11431
40°	4507
45°	2132
50°	1003
55°	533
60°	262
65°	52
70°	32
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2132 cd/sqm



TEST NUMBER: P778999

CATALOG NUMBER: LER4D05D010-EC4DR450210IC9024-4LBS1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.2	16.1
10°-20°	224.5	39.6
20°-30°	177.8	31.3
30°-40°	59.2	10.4
40°-50°	11.7	2.1
50°-60°	2.7	0.5
60°-70°	0.4	0.1
70°-80°	0.0	0.0
80°-90°	0.0	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°	493.5	87.0
0°-40°	552.7	97.4
0°-60°	567.1	99.9
0°-90°	567.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	567.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1003	
5°	971	91
15°	824	224
25°	383	178
35°	86	59
45°	14	12
55°	3	3
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P778999

CATALOG NUMBER: LER4D05D010-EC4DR450210IC9024-4LBS1MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	1003.1
2.5°	996.5
5°	970.8
7.5°	949.6
10°	918.2
12.5°	876.3
15°	824.2
17.5°	745.8
20°	636.1
22.5°	505.5
25°	383.0
27.5°	280.5
30°	201.7
32.5°	137.2
35°	85.7
37.5°	50.8
40°	31.6
42.5°	20.7
45°	13.8
47.5°	8.8
50°	5.9
52.5°	4.0
55°	2.8
57.5°	1.8
60°	1.2
62.5°	0.6
65°	0.2
67.5°	0.1
70°	0.1
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180°







(END OF REPORT)