

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: P779091

Luminaire Tested: LER4D05D010-EC4DR600210IC9050-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P779091
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-60)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D05D010-EC4DR600210IC9050-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 683.4 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.92
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



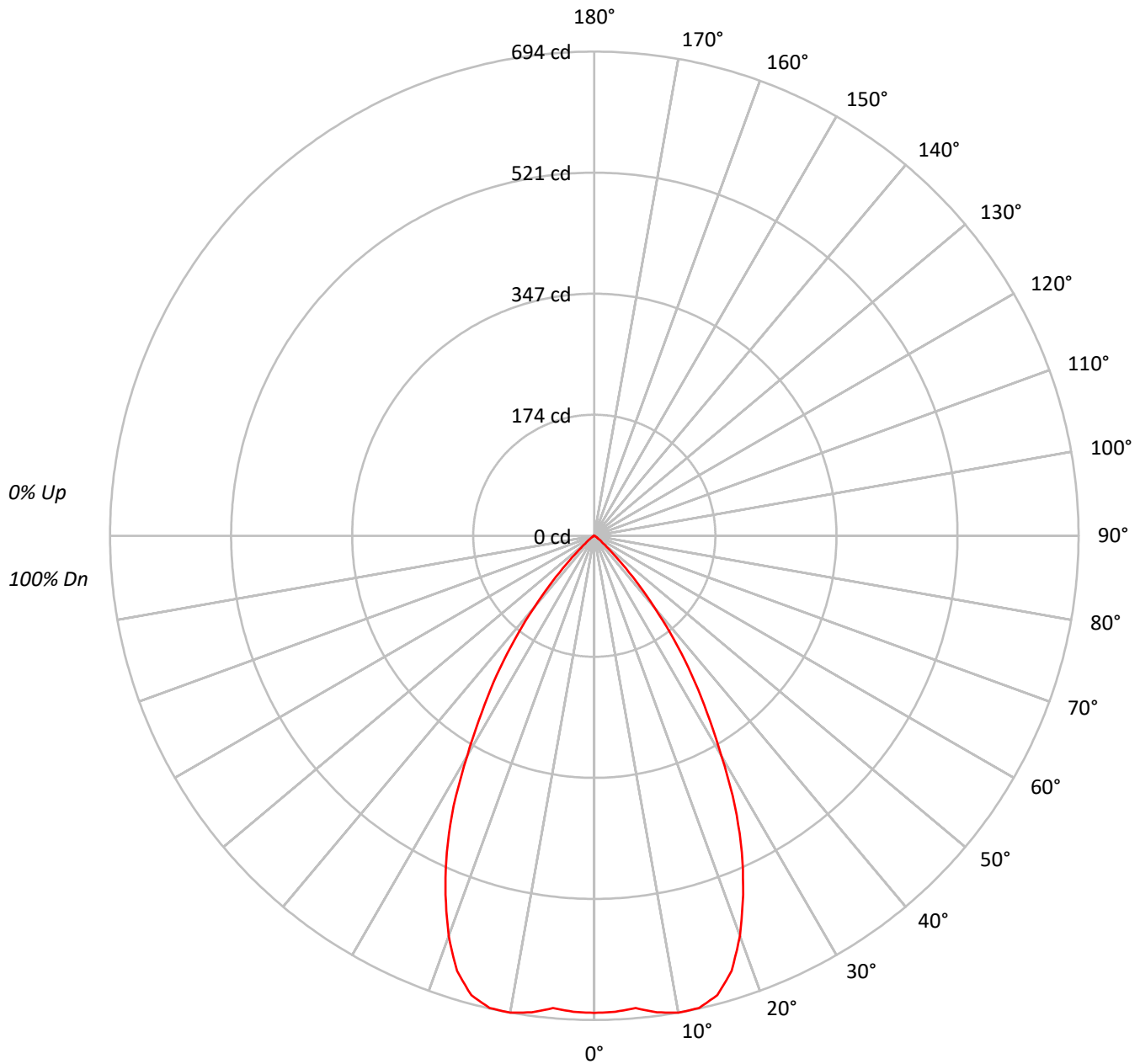
Downlight



TEST NUMBER: P779091

CATALOG NUMBER: LER4D05D010-EC4DR600210IC9050-4LBS1MW

Luminous Intensity Polar Plot





TEST NUMBER: P779091

CATALOG NUMBER: LER4D05D010-EC4DR600210IC9050-4LBS1MW

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	111	108	106	111	109	106	104	105	103	101		101	99	98		97
2	108	103	99	96	106	101	98	95	98	95	92		95	93	90		92
3	102	96	91	87	100	95	90	86	92	88	85		90	86	84		87
4	97	90	84	80	95	88	83	79	86	82	78		84	81	78		82
5	92	84	78	74	91	83	77	73	81	76	73		79	75	72		78
6	88	79	73	68	86	78	72	68	76	71	68		75	70	67		74
7	83	74	68	63	82	73	67	63	72	67	63		71	66	63		69
8	79	69	63	59	78	69	63	59	68	63	59		67	62	59		66
9	75	65	59	55	74	65	59	55	64	59	55		63	58	55		62
10	72	62	56	52	71	61	56	52	61	55	52		60	55	52		59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	74723
5°	74537
10°	77019
15°	77099
20°	70938
25°	60338
30°	45974
35°	32505
40°	19084
45°	7695
50°	2567
55°	1238
60°	503
65°	78
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7695 cd/sqm



TEST NUMBER: P779091

CATALOG NUMBER: LER4D05D010-EC4DR600210IC9050-4LBS1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.6	9.6
10°-20°	188.8	27.6
20°-30°	226.0	33.1
30°-40°	151.1	22.1
40°-50°	44.8	6.6
50°-60°	6.4	0.9
60°-70°	0.6	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°	480.4	70.3
0°-40°	631.5	92.4
0°-60°	682.7	99.9
0°-90°	683.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	683.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	684	
5°	680	66
15°	682	189
25°	500	226
35°	244	151
45°	50	45
55°	6	6
65°	0	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P779091

CATALOG NUMBER: LER4D05D010-EC4DR600210IC9050-4LBS1MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	683.9
2.5°	683.0
5°	679.6
7.5°	688.9
10°	694.2
12.5°	693.2
15°	681.6
17.5°	654.1
20°	610.1
22.5°	557.2
25°	500.5
27.5°	436.5
30°	364.4
32.5°	300.0
35°	243.7
37.5°	187.4
40°	133.8
42.5°	88.2
45°	49.8
47.5°	25.5
50°	15.1
52.5°	9.8
55°	6.5
57.5°	4.2
60°	2.3
62.5°	1.0
65°	0.3
67.5°	0.1
70°	0.0
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)