

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: P777451

Luminaire Tested: LERS4D05D010-EC4DR450210IC9035-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P777451
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: LERS4D05D010-EC4DR450210IC9035-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 45° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 686.7 lumens
Efficiency: N/A
Efficacy: 91.6 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



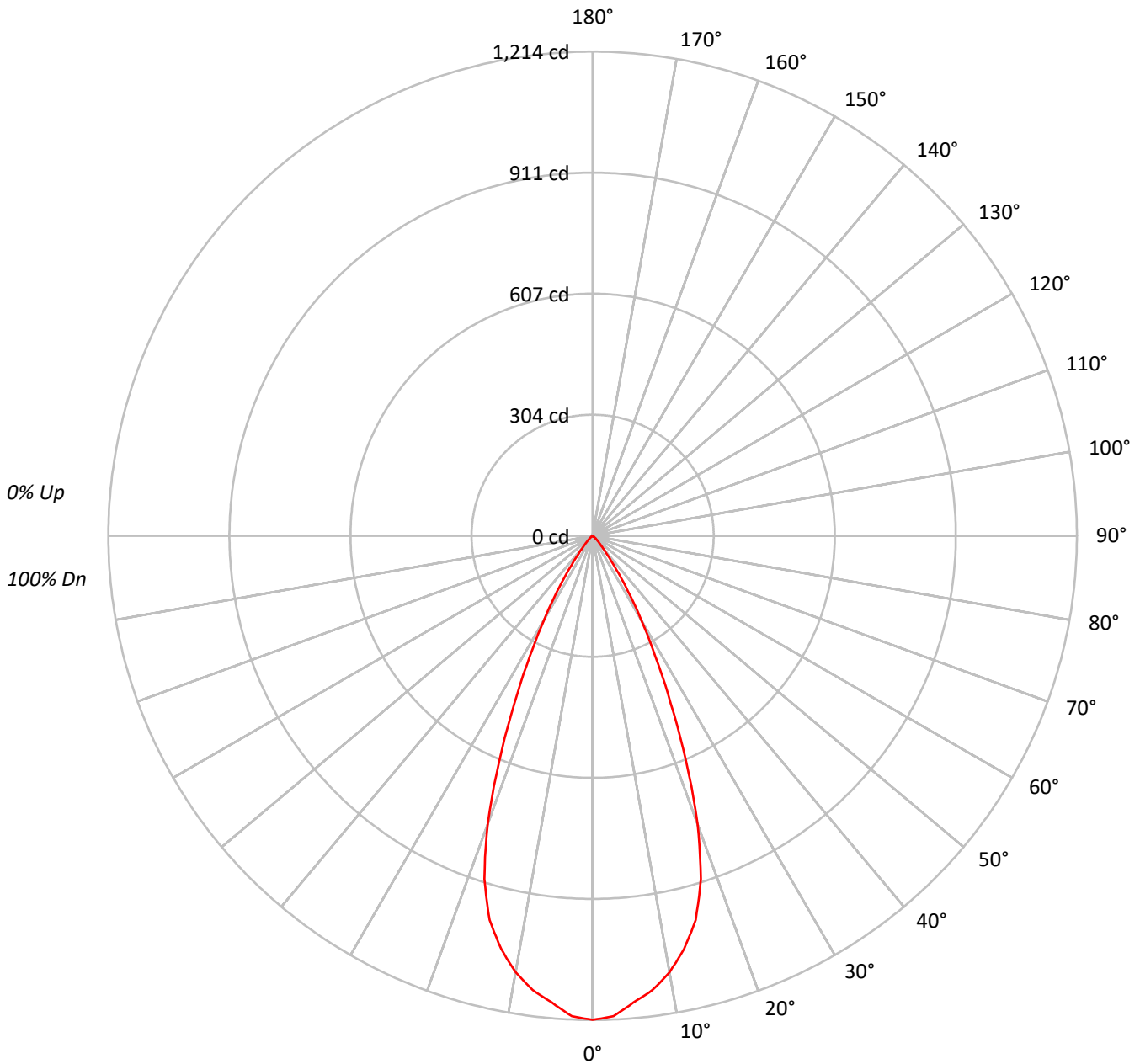
Downlight



TEST NUMBER: P777451

CATALOG NUMBER: LERS4D05D010-EC4DR450210IC9035-4LBS1MW

Luminous Intensity Polar Plot





TEST NUMBER: P777451

CATALOG NUMBER: LERS4D05D010-EC4DR450210IC9035-4LBS1MW

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	50	30	10	0													
RCR	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100	100	100													
	1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	98	98	97	95	95	95	95	95	95													
	2	109	105	102	99	107	103	100	98	100	98	95	97	95	93	95	93	91	90	90	90	90	90	90													
	3	105	99	95	91	103	98	94	91	95	92	89	93	90	88	91	89	87	85	85	85	85	85	85													
	4	100	94	89	85	99	93	88	85	91	87	84	89	86	83	87	84	82	81	81	81	81	81	81													
	5	96	89	84	80	95	88	83	80	86	82	79	85	81	79	83	80	78	77	77	77	77	77	77													
	6	92	85	80	76	91	84	79	76	83	78	75	81	77	75	80	77	74	73	73	73	73	73	73													
	7	89	81	75	72	87	80	75	72	79	74	71	78	74	71	77	73	71	69	69	69	69	69	69													
	8	85	77	72	68	84	76	71	68	75	71	68	74	70	67	73	70	67	66	66	66	66	66	66													
	9	82	73	68	65	81	73	68	65	72	68	65	71	67	64	71	67	64	63	63	63	63	63	63													
	10	79	70	65	62	78	70	65	62	69	65	62	68	64	61	68	64	61	60	60	60	60	60	60													

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	132610
5°	128839
10°	123261
15°	112810
20°	89495
25°	55878
30°	30796
35°	13818
40°	5448
45°	2565
50°	1224
55°	629
60°	306
65°	78
70°	32
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2565 cd/sqm



TEST NUMBER: P777451

CATALOG NUMBER: LERS4D05D010-EC4DR450210IC9035-4LBS1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.4	16.1
10°-20°	271.6	39.6
20°-30°	215.1	31.3
30°-40°	71.6	10.4
40°-50°	14.2	2.1
50°-60°	3.2	0.5
60°-70°	0.5	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°	597.1	87.0
0°-40°	668.7	97.4
0°-60°	686.2	99.9
0°-90°	686.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	686.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1214	
5°	1175	110
15°	997	272
25°	464	215
35°	104	72
45°	17	14
55°	3	3
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P777451

CATALOG NUMBER: LERS4D05D010-EC4DR450210IC9035-4LBS1MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	1213.7
2.5°	1205.8
5°	1174.7
7.5°	1149.0
10°	1111.0
12.5°	1060.4
15°	997.3
17.5°	902.4
20°	769.7
22.5°	611.6
25°	463.5
27.5°	339.4
30°	244.1
32.5°	166.0
35°	103.6
37.5°	61.5
40°	38.2
42.5°	25.1
45°	16.6
47.5°	10.7
50°	7.2
52.5°	4.8
55°	3.3
57.5°	2.2
60°	1.4
62.5°	0.7
65°	0.3
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

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



— 0°-180°

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)