

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: P777747

Luminaire Tested: LERS4D08D010-EC4DR400210IC9050-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P777747
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-28)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LERS4D08D010-EC4DR400210IC9050-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 40° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 836.6 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.6
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 8.9
Input Voltage (V): NR
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: 24 FT



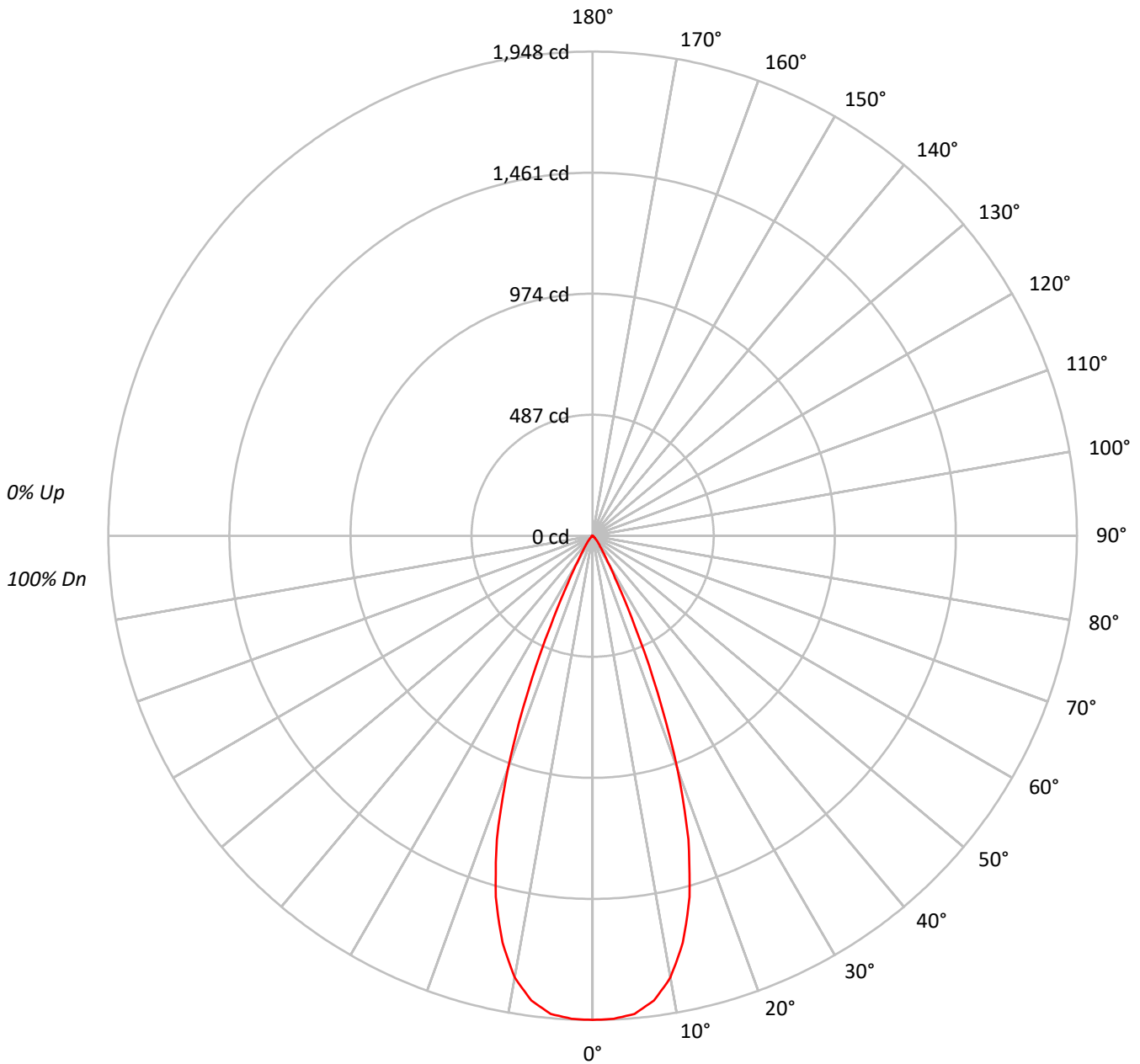
Downlight



TEST NUMBER: P777747

CATALOG NUMBER: LERS4D08D010-EC4DR400210IC9050-4LBS1MW

Luminous Intensity Polar Plot





TEST NUMBER: P777747

CATALOG NUMBER: LERS4D08D010-EC4DR400210IC9050-4LBS1MW

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									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	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	99	98	97	96	95	93	92	91	89	88															
	1	115	112	110	108	112	110	108	107	106	105	103	103	101	100	99	98	97	96	95	93	92	91	89	88	87	85	84	82	81																
	2	110	106	103	100	108	105	102	99	102	99	97	99	97	95	96	95	93	92	91	89	88	87	85	84	82	81	79	77	76																
	3	106	101	97	94	104	100	96	93	97	94	92	95	93	90	93	91	89	88	87	85	84	82	81	79	77	76	74	72	71																
	4	102	97	92	89	101	95	91	88	93	90	87	92	89	86	90	87	85	84	82	81	79	77	76	74	72	71	69	68	67																
	5	99	92	88	84	97	91	87	84	90	86	83	88	85	83	87	84	82	81	79	77	76	74	72	71	69	68	67	66	65																
	6	95	88	84	80	94	88	83	80	86	82	80	85	82	79	84	81	79	77	76	74	72	71	69	68	67	66	65	64	63																
	7	92	85	80	77	91	84	80	77	83	79	76	82	79	76	81	78	76	74	72	71	69	68	67	66	65	64	63	62	61																
	8	89	82	77	74	88	81	77	74	80	76	73	79	76	73	78	75	73	72	71	69	68	67	66	65	64	63	62	61	60																
	9	86	79	74	71	85	78	74	71	77	73	71	77	73	70	76	72	70	69	68	67	66	65	64	63	62	61	60	59	58																
	10	83	76	71	68	82	75	71	68	75	71	68	74	70	68	73	70	68	67	66	65	64	63	62	61	60	59	58	57	56																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	212818
5°	211788
10°	200180
15°	170182
20°	115994
25°	48403
30°	15215
35°	7069
40°	3908
45°	1792
50°	867
55°	476
60°	240
65°	78
70°	32
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1792 cd/sqm



TEST NUMBER: P777747

CATALOG NUMBER: LERS4D08D010-EC4DR400210IC9050-4LBS1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.3	21.6
10°-20°	403.9	48.3
20°-30°	202.2	24.2
30°-40°	37.1	4.4
40°-50°	10.2	1.2
50°-60°	2.4	0.3
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°	786.4	94.0
0°-40°	823.5	98.4
0°-60°	836.1	99.9
0°-90°	836.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	836.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1948	
5°	1931	180
15°	1504	404
25°	402	202
35°	53	37
45°	12	10
55°	2	2
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P777747

CATALOG NUMBER: LERS4D08D010-EC4DR400210IC9050-4LBS1MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	1947.8
2.5°	1945.0
5°	1931.0
7.5°	1886.4
10°	1804.3
12.5°	1676.5
15°	1504.5
17.5°	1280.9
20°	997.6
22.5°	680.1
25°	401.5
27.5°	212.2
30°	120.6
32.5°	77.9
35°	53.0
37.5°	37.9
40°	27.4
42.5°	18.8
45°	11.6
47.5°	7.4
50°	5.1
52.5°	3.7
55°	2.5
57.5°	1.6
60°	1.1
62.5°	0.7
65°	0.3
67.5°	0.2
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)