

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: P779061

Luminaire Tested: LER4D05D010-EC4DR550210IC9040-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P779061
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-52)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D05D010-EC4DR550210IC9040-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 55° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 742.0 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.87
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



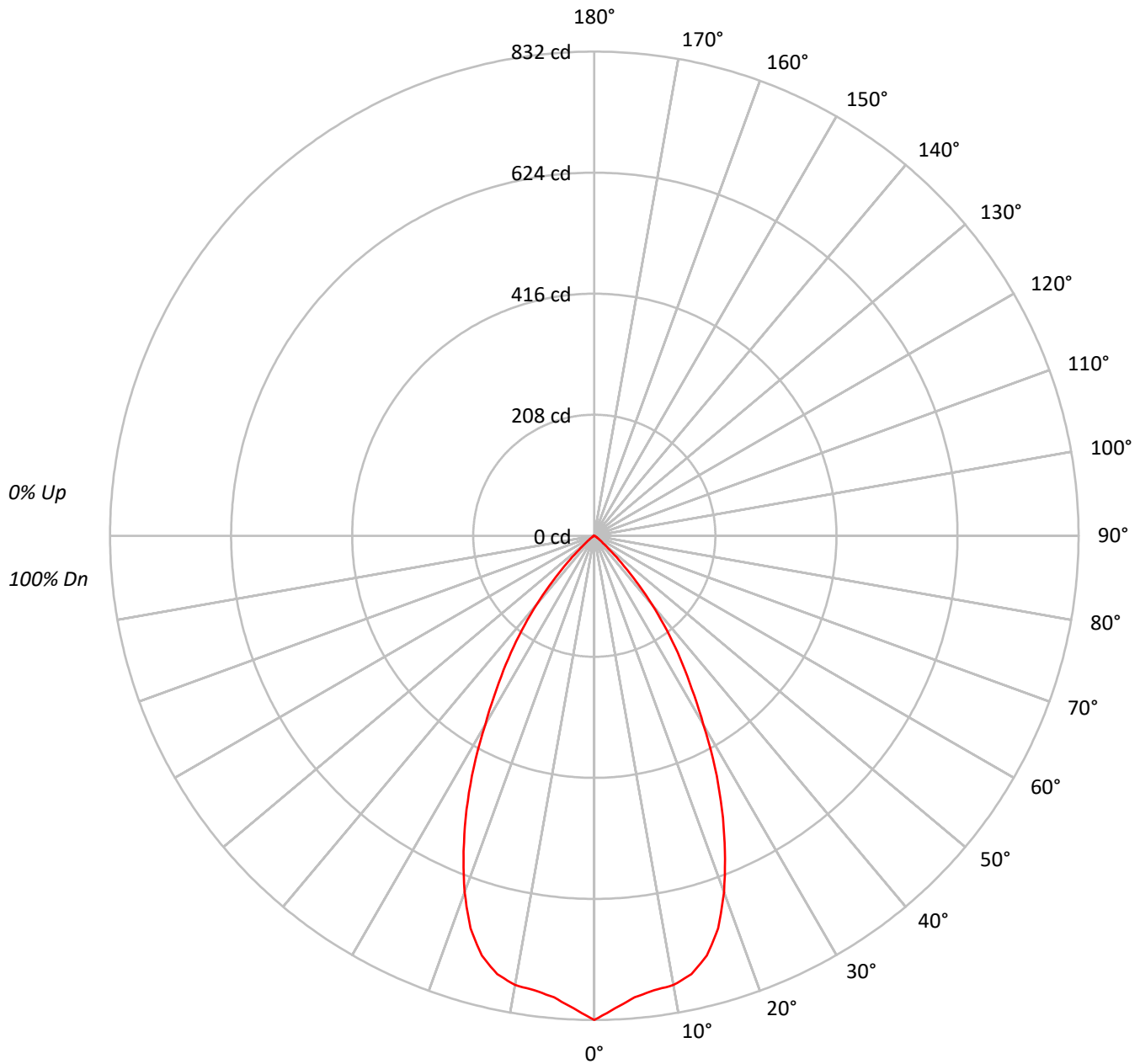
Downlight



TEST NUMBER: P779061

CATALOG NUMBER: LER4D05D010-EC4DR550210IC9040-4LBS1H

Luminous Intensity Polar Plot





TEST NUMBER: P779061

CATALOG NUMBER: LER4D05D010-EC4DR550210IC9040-4LBS1H

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						
1	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94						
2	108	103	99	96	106	101	98	95	98	95	92	95	93	90	92	90	89	87						
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81						
4	97	90	84	80	95	88	83	79	86	82	78	84	81	78	82	79	77	75						
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70						
6	88	79	73	68	86	78	72	68	76	71	68	75	70	67	74	70	67	65						
7	83	74	68	64	82	73	67	63	72	67	63	71	66	63	70	65	62	61						
8	79	69	63	59	78	69	63	59	68	63	59	67	62	59	66	62	58	57						
9	75	66	60	56	74	65	59	55	64	59	55	63	58	55	62	58	55	54						
10	72	62	56	52	71	61	56	52	61	56	52	60	55	52	59	55	52	50						

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	90905
5°	87293
10°	86971
15°	84463
20°	75740
25°	62593
30°	47286
35°	34279
40°	21936
45°	10028
50°	3281
55°	1410
60°	612
65°	78
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10028 cd/sqm



TEST NUMBER: P779061

CATALOG NUMBER: LER4D05D010-EC4DR550210IC9040-4LBS1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.7	10.2
10°-20°	206.7	27.9
20°-30°	235.6	31.7
30°-40°	160.3	21.6
40°-50°	55.3	7.4
50°-60°	7.7	1.0
60°-70°	0.8	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°	518.0	69.8
0°-40°	678.3	91.4
0°-60°	741.3	99.9
0°-90°	742.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	742.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	832	
5°	796	76
15°	747	207
25°	519	236
35°	257	160
45°	65	55
55°	7	8
65°	0	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P779061

CATALOG NUMBER: LER4D05D010-EC4DR550210IC9040-4LBS1H

CANDELA DISTRIBUTION (FULL):

	0°
0°	832.0
2.5°	813.0
5°	795.9
7.5°	787.6
10°	783.9
12.5°	771.5
15°	746.7
17.5°	707.5
20°	651.4
22.5°	586.6
25°	519.2
27.5°	449.0
30°	374.8
32.5°	311.9
35°	257.0
37.5°	204.8
40°	153.8
42.5°	106.6
45°	64.9
47.5°	34.9
50°	19.3
52.5°	11.5
55°	7.4
57.5°	4.8
60°	2.8
62.5°	1.3
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)