

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: P777837

Luminaire Tested: LERS4D08D010-EC4DR600210IC9040-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P777837
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: LERS4D08D010-EC4DR600210IC9040-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 856.1 lumens
Efficiency: N/A
Efficacy: 96.2 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): 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



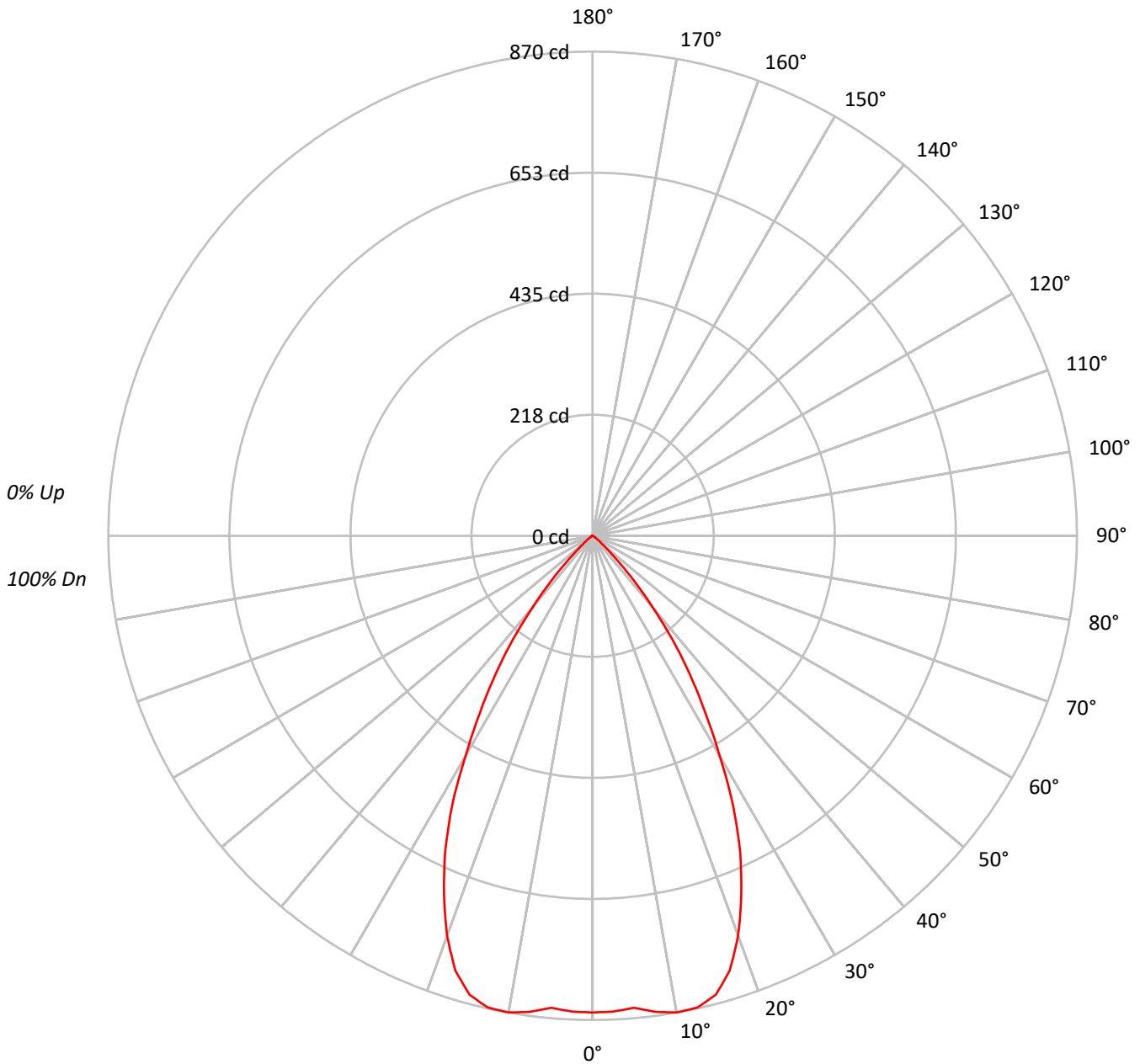
Downlight



TEST NUMBER: P777837

CATALOG NUMBER: LERS4D08D010-EC4DR600210IC9040-4LBS1H

Luminous Intensity Polar Plot





TEST NUMBER: P777837

CATALOG NUMBER: LERS4D08D010-EC4DR600210IC9040-4LBS1H

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	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			
1	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94					94			
2	108	103	99	96	106	101	98	95	98	95	92	95	93	90	92	90	89	87					87			
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81					81			
4	97	90	84	80	95	88	83	79	86	82	78	84	81	78	82	79	77	75					75			
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70					70			
6	88	79	73	68	86	78	72	68	76	71	68	75	70	67	74	70	67	65					65			
7	83	74	68	63	82	73	67	63	72	67	63	71	66	63	69	65	62	61					61			
8	79	69	63	59	78	69	63	59	68	63	59	67	62	59	66	61	58	57					57			
9	75	65	59	55	74	65	59	55	64	59	55	63	58	55	62	58	55	53					53			
10	72	62	56	52	71	61	56	52	61	55	52	60	55	52	59	55	52	50					50			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	93604
5°	93369
10°	96479
15°	96578
20°	88867
25°	75576
30°	57594
35°	40722
40°	23905
45°	9657
50°	3230
55°	1543
60°	634
65°	78
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9657 cd/sqm



TEST NUMBER: P777837

CATALOG NUMBER: LERS4D08D010-EC4DR600210IC9040-4LBS1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.1	9.6
10°-20°	236.5	27.6
20°-30°	283.1	33.1
30°-40°	189.3	22.1
40°-50°	56.2	6.6
50°-60°	8.1	0.9
60°-70°	0.7	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°	601.8	70.3
0°-40°	791.1	92.4
0°-60°	855.3	99.9
0°-90°	856.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	856.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	857	
5°	851	82
15°	854	237
25°	627	283
35°	305	189
45°	62	56
55°	8	8
65°	0	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P777837

CATALOG NUMBER: LERS4D08D010-EC4DR600210IC9040-4LBS1H

CANDELA DISTRIBUTION (FULL):

0°	
0°	856.7
2.5°	855.6
5°	851.3
7.5°	862.9
10°	869.6
12.5°	868.4
15°	853.8
17.5°	819.4
20°	764.3
22.5°	698.0
25°	626.9
27.5°	546.9
30°	456.5
32.5°	375.8
35°	305.3
37.5°	234.7
40°	167.6
42.5°	110.6
45°	62.5
47.5°	32.0
50°	19.0
52.5°	12.3
55°	8.1
57.5°	5.2
60°	2.9
62.5°	1.2
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

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)