

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: P778120

Luminaire Tested: LERS4D10D010-EC4DR550210IC9035-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P778120
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: LERS4D10D010-EC4DR550210IC9035-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 55° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1065.8 lumens
Efficiency: N/A
Efficacy: 91.1 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): 11.7
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



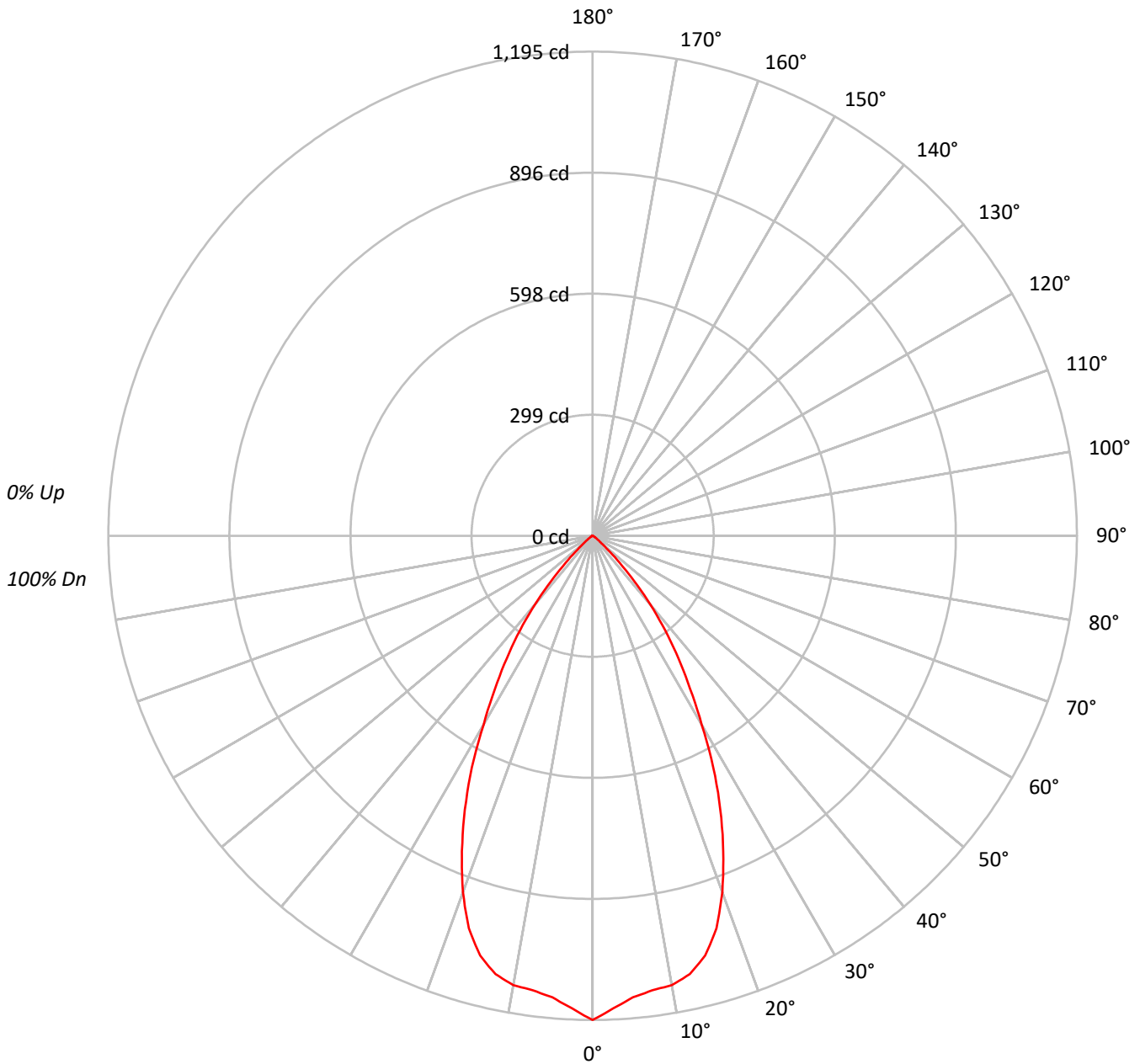
Downlight



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Luminous Intensity Polar Plot





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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	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°	130578
5°	125395
10°	124926
15°	121327
20°	108785
25°	89911
30°	67914
35°	49245
40°	31507
45°	14401
50°	4708
55°	2038
60°	874
65°	129
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14401 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.8	10.2
10°-20°	296.9	27.9
20°-30°	338.3	31.7
30°-40°	230.3	21.6
40°-50°	79.4	7.4
50°-60°	11.0	1.0
60°-70°	1.1	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°	744.0	69.8
0°-40°	974.4	91.4
0°-60°	1064.7	99.9
0°-90°	1065.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1065.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1195	
5°	1143	109
15°	1073	297
25°	746	338
35°	369	230
45°	93	79
55°	11	11
65°	0	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1195.1
2.5°	1167.7
5°	1143.3
7.5°	1131.3
10°	1126.0
12.5°	1108.2
15°	1072.6
17.5°	1016.2
20°	935.6
22.5°	842.6
25°	745.8
27.5°	645.0
30°	538.3
32.5°	448.0
35°	369.2
37.5°	294.3
40°	220.9
42.5°	153.1
45°	93.2
47.5°	50.2
50°	27.7
52.5°	16.4
55°	10.7
57.5°	6.8
60°	4.0
62.5°	1.8
65°	0.5
67.5°	0.2
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

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— 0°-180°

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(END OF REPORT)