

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: P740754

Luminaire Tested: LD4D05D010-EU4DR700210IC9040-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P740754
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-76)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D05D010-EU4DR700210IC9040-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 769.0 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.04
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 7.5
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

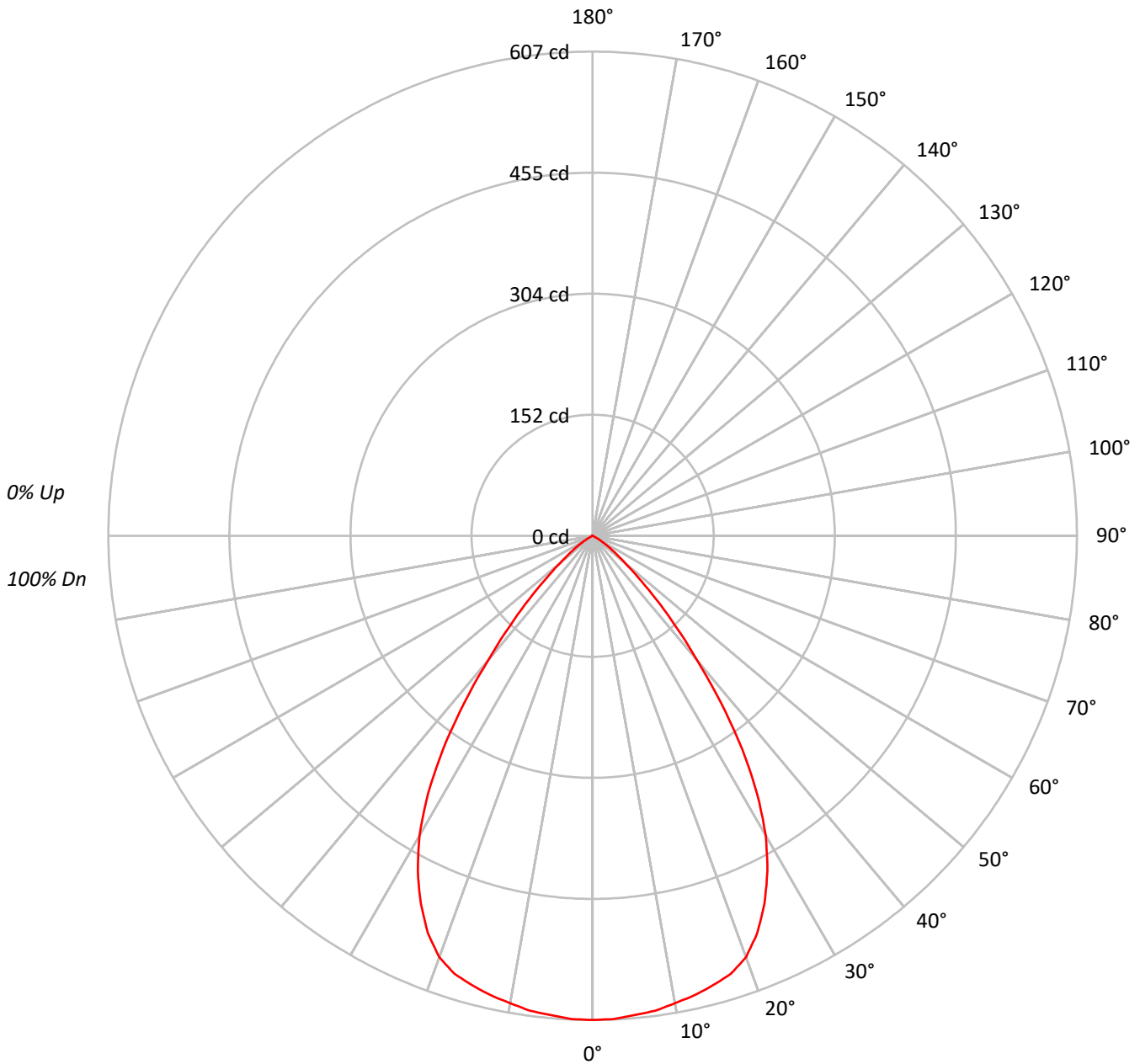


Downlight



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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	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	97	97	95	94	93										
	1	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	95	94	93	93	93	92	91	90	91	89	87	85									
	2	107	102	97	94	105	100	96	92	97	93	90	94	91	88	91	89	87	85	85	85	84	83	82	82	81	80	78									
	3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79	78	78	78	77	76	75	74	73	71										
	4	95	87	81	76	93	86	80	76	83	78	75	81	77	74	79	76	73	71	71	71	70	69	68	67	65	65										
	5	89	80	74	69	88	79	73	69	78	72	68	76	71	68	74	70	67	65	65	65	64	63	62	61	60	60										
	6	84	75	68	63	83	74	68	63	72	67	63	71	66	62	69	65	62	60	60	60	59	58	57	56	55	54										
	7	80	69	63	58	78	69	63	58	67	62	58	66	61	57	65	61	57	56	56	56	55	54	53	52	51	51										
	8	75	65	58	54	74	64	58	54	63	57	53	62	57	53	61	56	53	52	52	52	51	50	49	48	48	48										
	9	71	61	54	50	70	60	54	50	59	53	50	58	53	49	57	53	49	48	48	48	47	46	45	44	44	44										
	10	67	57	50	46	66	56	50	46	55	50	46	55	50	46	54	49	46	44	44	44	43	42	41	40	40	40										

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	66321
5°	66158
10°	66013
15°	65991
20°	65345
25°	61387
30°	54730
35°	43643
40°	28968
45°	17321
50°	8975
55°	4724
60°	1661
65°	26
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 17321 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.4	7.5
10°-20°	164.5	21.4
20°-30°	232.1	30.2
30°-40°	200.3	26.1
40°-50°	89.7	11.7
50°-60°	23.5	3.1
60°-70°	1.5	0.2
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°	454.0	59.0
0°-40°	654.3	85.1
0°-60°	767.5	99.8
0°-90°	769.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	769.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	607	
5°	603	57
15°	583	165
25°	509	232
35°	327	200
45°	112	90
55°	25	23
65°	0	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	607.0
2.5°	606.4
5°	603.2
7.5°	600.6
10°	595.0
12.5°	590.0
15°	583.4
17.5°	575.9
20°	562.0
22.5°	539.2
25°	509.2
27.5°	474.4
30°	433.8
32.5°	384.1
35°	327.2
37.5°	264.2
40°	203.1
42.5°	154.4
45°	112.1
47.5°	77.3
50°	52.8
52.5°	36.4
55°	24.8
57.5°	15.0
60°	7.6
62.5°	2.4
65°	0.1
67.5°	0.0
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)