

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: P746605

Luminaire Tested: LD4D30D010-EU4DR7020359027-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P746605
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-73)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D30D010-EU4DR7020359027-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1523.3 lumens
Efficiency: N/A
Efficacy: 52.5 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.82
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 29
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

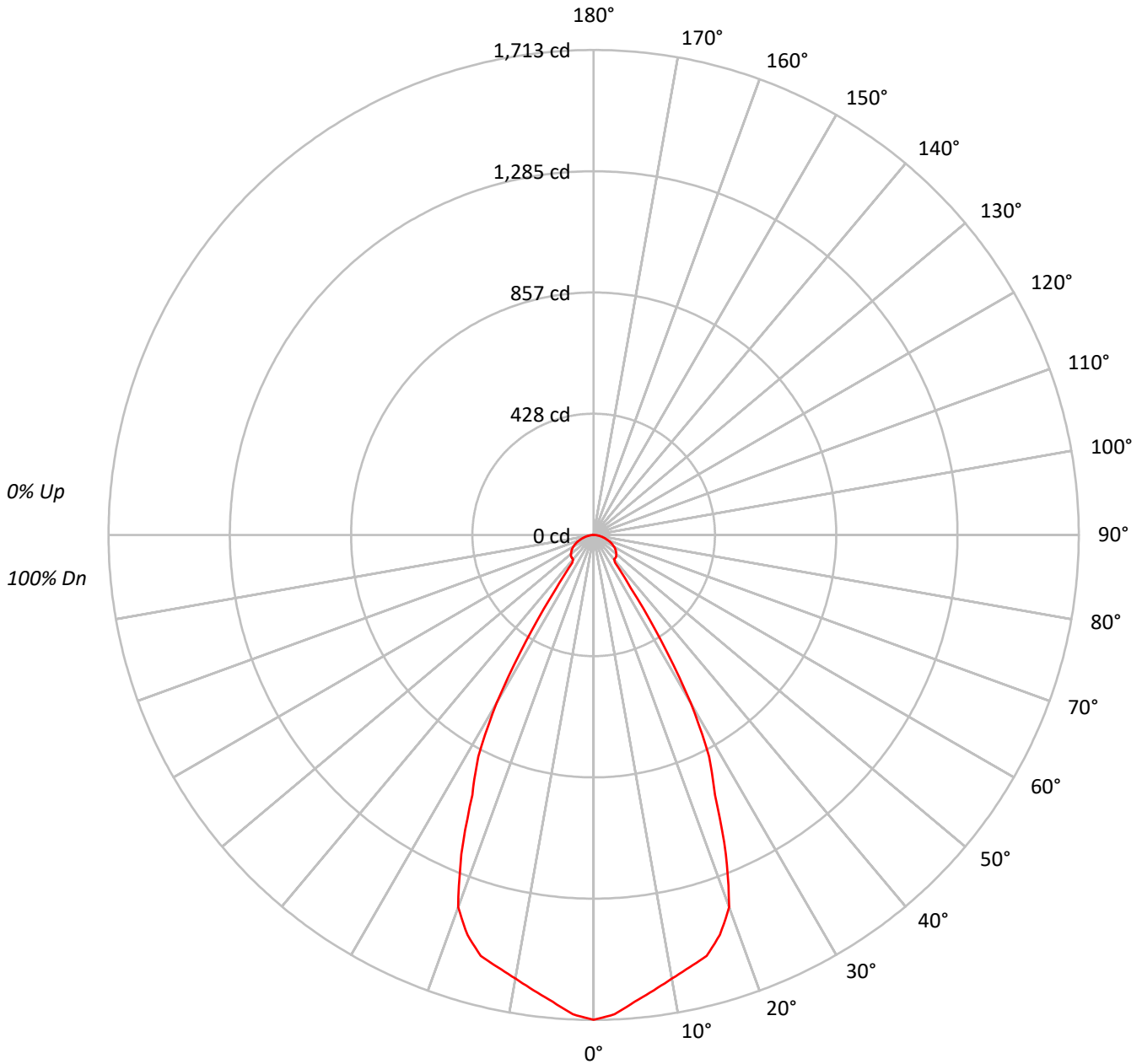


Downlight



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76			
4	94	86	80	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70			
5	89	80	74	69	87	79	73	69	77	72	68	75	71	67	74	70	67	65			
6	85	75	68	64	83	74	68	64	73	67	63	71	66	63	70	66	62	61			
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57			
8	77	66	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53			
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50			
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	187120
5°	181561
10°	176504
15°	174186
20°	162654
25°	122195
30°	86384
35°	30598
40°	16089
45°	17136
50°	17746
55°	18078
60°	18181
65°	17813
70°	16803
75°	15577
80°	13780
85°	11157

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 18200 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.1	10.3
10°-20°	428.3	28.1
20°-30°	471.7	31.0
30°-40°	180.2	11.8
40°-50°	85.1	5.6
50°-60°	84.6	5.6
60°-70°	67.7	4.4
70°-80°	38.9	2.6
80°-90°	10.6	0.7
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°	1056.1	69.3
0°-40°	1236.3	81.2
0°-60°	1406.1	92.3
0°-90°	1523.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1523.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1713	
5°	1655	156
15°	1540	428
25°	1014	472
35°	229	180
45°	111	85
55°	95	85
65°	69	68
75°	37	39
85°	9	11
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1712.6
2.5°	1694.7
5°	1655.4
7.5°	1622.6
10°	1590.9
12.5°	1564.0
15°	1539.9
17.5°	1481.6
20°	1398.9
22.5°	1220.4
25°	1013.6
27.5°	882.3
30°	684.7
32.5°	442.3
35°	229.4
37.5°	123.9
40°	112.8
42.5°	112.0
45°	110.9
47.5°	108.5
50°	104.4
52.5°	99.8
55°	94.9
57.5°	89.5
60°	83.2
62.5°	76.2
65°	68.9
67.5°	60.7
70°	52.6
72.5°	44.5
75°	36.9
77.5°	29.0
80°	21.9
82.5°	15.5
85°	8.9
87.5°	3.6
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)