

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: P746449

Luminaire Tested: LD4D30D010-EU4DR6020359027-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P746449
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-57)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D30D010-EU4DR6020359027-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2048.2 lumens
Efficiency: N/A
Efficacy: 70.6 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.83
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 29
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



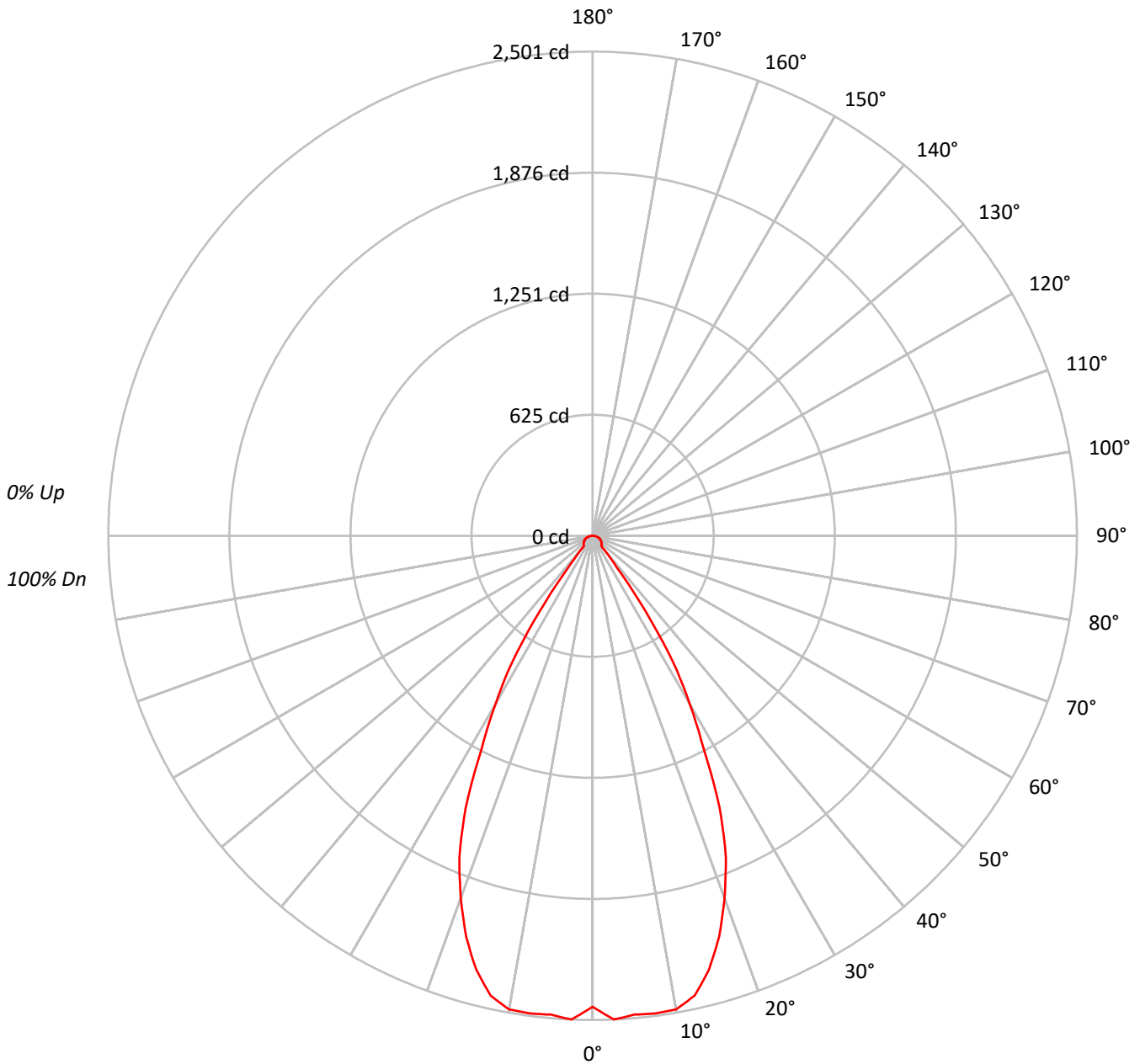
Downlight



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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	100	100	100
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93	93	93	93
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86	86	86	86
3	102	96	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80	80	80	80
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75	75	75	75
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70	70	70	70
6	88	79	73	69	87	78	73	69	77	72	68	75	71	68	74	70	67	66	66	66	66
7	84	75	69	65	83	74	68	64	73	68	64	72	67	64	71	67	63	62	62	62	62
8	80	71	65	61	79	70	65	61	69	64	60	68	64	60	67	63	60	59	59	59	59
9	77	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55	55	55	55
10	73	64	58	54	72	63	58	54	62	58	54	62	57	54	61	57	54	53	53	53	53

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	265788
5°	272320
10°	275613
15°	262551
20°	231488
25°	187247
30°	126655
35°	63464
40°	10298
45°	10075
50°	10267
55°	10439
60°	10708
65°	10962
70°	11213
75°	11356
80°	10948
85°	9151

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 11356 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.3	11.6
10°-20°	642.0	31.3
20°-30°	690.8	33.7
30°-40°	300.3	14.7
40°-50°	50.4	2.5
50°-60°	49.0	2.4
60°-70°	41.9	2.0
70°-80°	28.1	1.4
80°-90°	8.4	0.4
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°	1570.1	76.7
0°-40°	1870.4	91.3
0°-60°	1969.9	96.2
0°-90°	2048.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2048.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2433	
5°	2483	237
15°	2321	642
25°	1553	691
35°	476	300
45°	65	50
55°	55	49
65°	42	42
75°	27	28
85°	7	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2432.6
2.5°	2501.0
5°	2482.9
7.5°	2488.6
10°	2484.2
12.5°	2432.9
15°	2321.1
17.5°	2171.1
20°	1990.9
22.5°	1798.1
25°	1553.2
27.5°	1242.3
30°	1003.9
32.5°	773.7
35°	475.8
37.5°	203.6
40°	72.2
42.5°	66.5
45°	65.2
47.5°	63.0
50°	60.4
52.5°	57.6
55°	54.8
57.5°	51.9
60°	49.0
62.5°	45.9
65°	42.4
67.5°	39.0
70°	35.1
72.5°	31.0
75°	26.9
77.5°	22.2
80°	17.4
82.5°	12.3
85°	7.3
87.5°	2.5
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)