

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: P754239

Luminaire Tested: LD4D80BD010-EU4DR6070959024-4LBDP1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P754239
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: LD4D80BD010-EU4DR6070959024-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5922.6 lumens
Efficiency: N/A
Efficacy: 75.1 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): 78.9
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

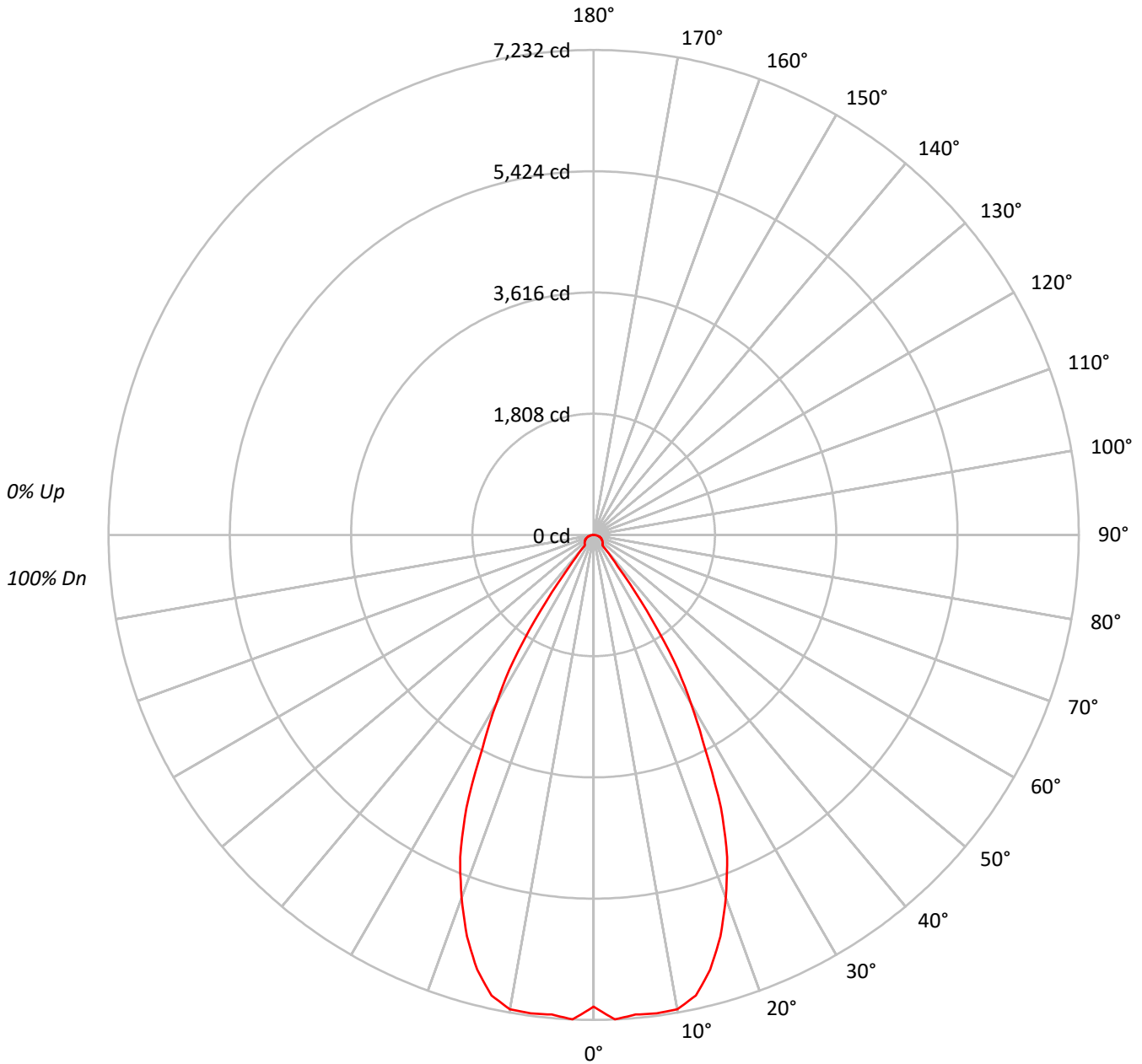


Downlight

TEST NUMBER: P754239

CATALOG NUMBER: LD4D80BD010-EU4DR6070959024-4LBDP1MW

Luminous Intensity Polar Plot





TEST NUMBER: P754239

CATALOG NUMBER: LD4D80BD010-EU4DR6070959024-4LBDP1MW

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	768518
5°	787412
10°	796927
15°	759183
20°	669360
25°	541392
30°	366215
35°	183508
40°	29767
45°	29142
50°	29712
55°	30174
60°	31008
65°	31722
70°	32457
75°	32843
80°	31649
85°	26452

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 32843 cd/sqm



TEST NUMBER: P754239

CATALOG NUMBER: LD4D80BD010-EU4DR6070959024-4LBDP1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	686.2	11.6
10°-20°	1856.5	31.3
20°-30°	1997.4	33.7
30°-40°	868.2	14.7
40°-50°	145.8	2.5
50°-60°	141.8	2.4
60°-70°	121.3	2.0
70°-80°	81.1	1.4
80°-90°	24.3	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°	4540.0	76.7
0°-40°	5408.2	91.3
0°-60°	5695.9	96.2
0°-90°	5922.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5922.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7034	
5°	7179	686
15°	6712	1856
25°	4491	1997
35°	1376	868
45°	189	146
55°	158	142
65°	123	121
75°	78	81
85°	21	24
90°	0	



TEST NUMBER: P754239

CATALOG NUMBER: LD4D80BD010-EU4DR6070959024-4LBDP1MW

CANDELA DISTRIBUTION (FULL):

0°	
0°	7033.8
2.5°	7231.5
5°	7179.3
7.5°	7195.8
10°	7183.0
12.5°	7034.7
15°	6711.6
17.5°	6277.7
20°	5756.8
22.5°	5199.4
25°	4490.8
27.5°	3591.9
30°	2902.7
32.5°	2237.2
35°	1375.8
37.5°	588.6
40°	208.7
42.5°	192.2
45°	188.6
47.5°	182.2
50°	174.8
52.5°	166.6
55°	158.4
57.5°	150.1
60°	141.9
62.5°	132.7
65°	122.7
67.5°	112.6
70°	101.6
72.5°	89.7
75°	77.8
77.5°	64.1
80°	50.3
82.5°	35.7
85°	21.1
87.5°	7.3
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)