

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: P754256

Luminaire Tested: LD4D80BD010-EU4DR6070959027-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P754256
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-60)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D80BD010-EU4DR6070959027-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7410.9 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.92
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 78.9
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

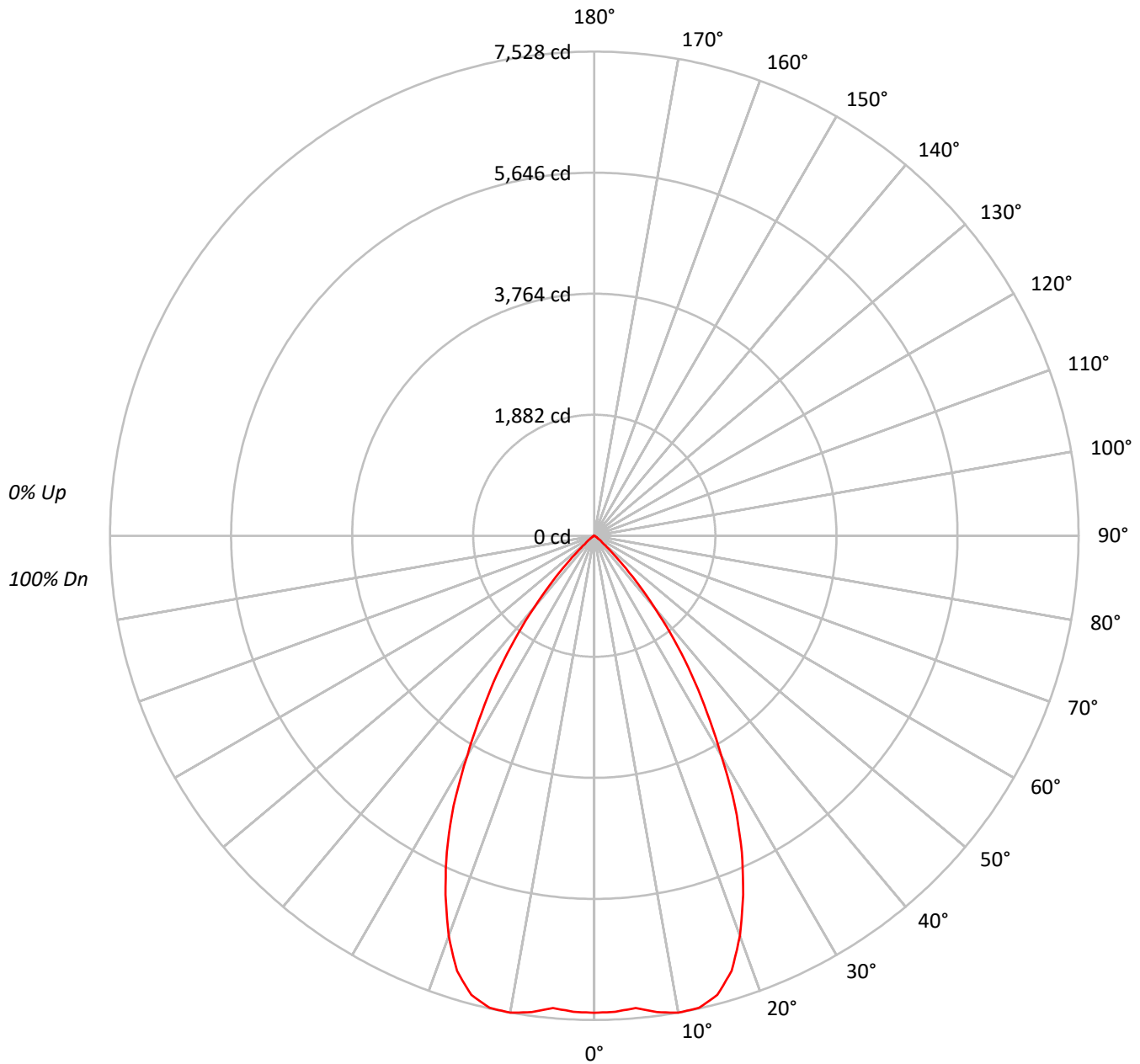


Downlight

TEST NUMBER: P754256

CATALOG NUMBER: LD4D80BD010-EU4DR6070959027-4LBS1MW

Luminous Intensity Polar Plot





TEST NUMBER: P754256

CATALOG NUMBER: LD4D80BD010-EU4DR6070959027-4LBS1MW

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	114	111	108	106	111	109	106	104		105	103	101		101	99	98		97	96	95
2	108	103	99	96	106	101	98	95		98	95	92		95	93	90		92	90	89
3	102	96	91	87	100	95	90	86		92	88	85		90	86	84		87	85	82
4	97	90	84	80	95	88	83	79		86	82	78		84	81	78		82	79	77
5	92	84	78	74	91	83	77	73		81	76	73		79	75	72		78	74	71
6	87	79	73	68	86	78	72	68		76	71	68		75	70	67		74	70	67
7	83	74	68	63	82	73	67	63		72	67	63		71	66	63		69	65	62
8	79	69	63	59	78	69	63	59		68	63	59		67	62	59		66	61	58
9	75	65	59	55	74	65	59	55		64	59	55		63	58	55		62	58	55
10	72	62	56	52	71	61	56	52		61	55	52		60	55	52		59	55	52

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	810321
5°	808339
10°	835192
15°	836056
20°	769261
25°	654305
30°	498560
35°	352557
40°	207027
45°	83532
50°	27894
55°	13430
60°	5507
65°	827
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 83532 cd/sqm



TEST NUMBER: P754256

CATALOG NUMBER: LD4D80BD010-EU4DR6070959027-4LBS1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	711.0	9.6
10°-20°	2047.6	27.6
20°-30°	2450.7	33.1
30°-40°	1639.1	22.1
40°-50°	486.0	6.6
50°-60°	69.9	0.9
60°-70°	6.7	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°	5209.3	70.3
0°-40°	6848.4	92.4
0°-60°	7404.3	99.9
0°-90°	7410.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7410.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7416	
5°	7370	711
15°	7391	2048
25°	5427	2451
35°	2643	1639
45°	541	486
55°	70	70
65°	3	7
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P754256

CATALOG NUMBER: LD4D80BD010-EU4DR6070959027-4LBS1MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	7416.4
2.5°	7406.9
5°	7370.1
7.5°	7470.0
10°	7527.9
12.5°	7517.4
15°	7391.2
17.5°	7093.5
20°	6616.0
22.5°	6042.7
25°	5427.4
27.5°	4734.3
30°	3951.7
32.5°	3253.3
35°	2643.2
37.5°	2032.1
40°	1451.5
42.5°	957.2
45°	540.6
47.5°	276.6
50°	164.1
52.5°	106.2
55°	70.5
57.5°	45.2
60°	25.2
62.5°	10.5
65°	3.2
67.5°	1.1
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



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180°







(END OF REPORT)