

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: P754302

Luminaire Tested: LD4D80BD010-EU4DR6070959050-4LBDP1H

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P754302
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-EU4DR6070959050-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8130.7 lumens
Efficiency: N/A
Efficacy: 103.1 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

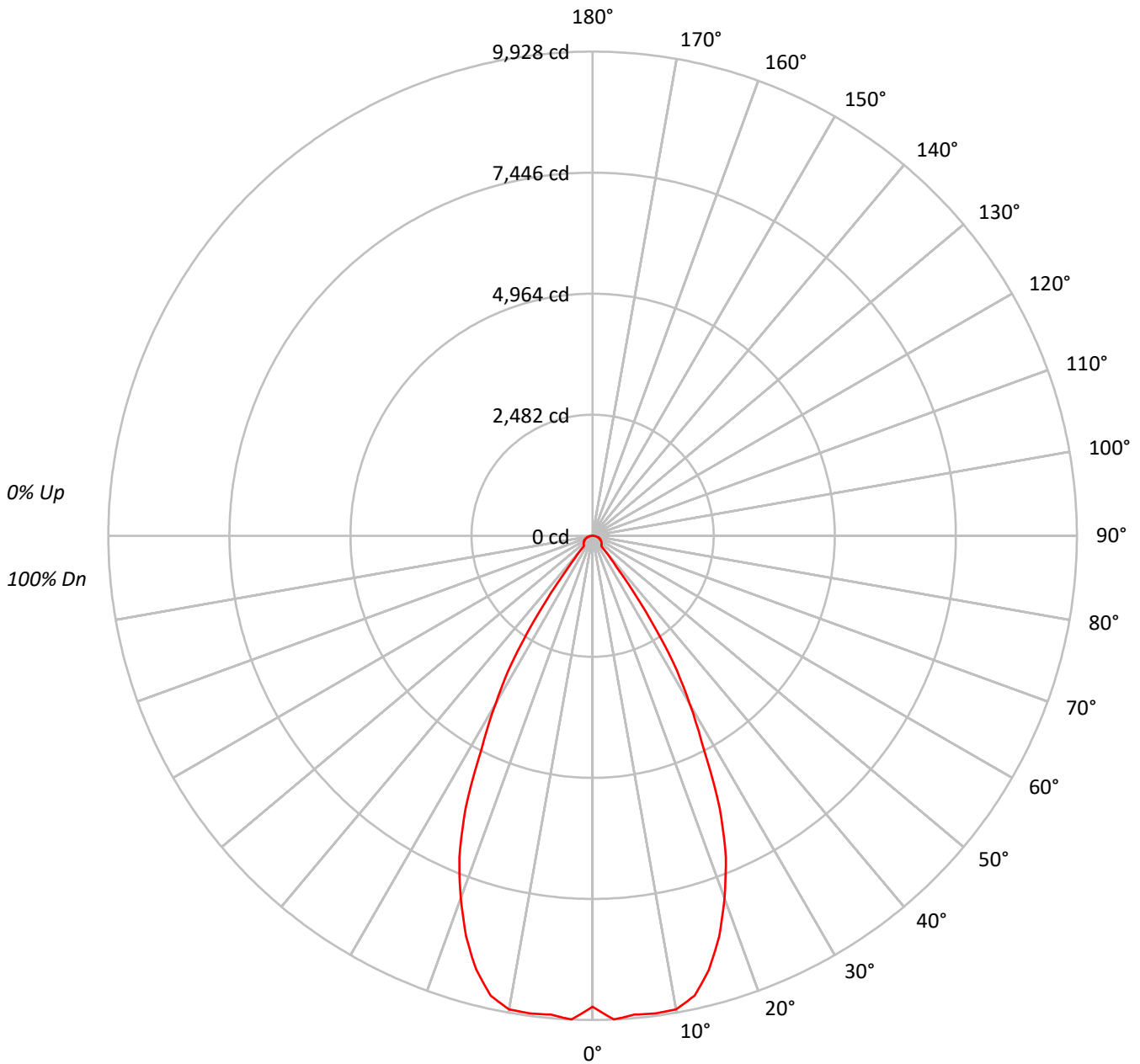
Input Watts (W): 78.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

TEST NUMBER: P754302
CATALOG NUMBER: LD4D80BD010-EU4DR6070959050-4LBDP1H

Luminous Intensity Polar Plot





TEST NUMBER: P754302

CATALOG NUMBER: LD4D80BD010-EU4DR6070959050-4LBDP1H

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	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°	1055044
5°	1080987
10°	1094052
15°	1042231
20°	918928
25°	743251
30°	502749
35°	251933
40°	40863
45°	40005
50°	40795
55°	41413
60°	42568
65°	43537
70°	44564
75°	45086
80°	43478
85°	36230

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 45086 cd/sqm



TEST NUMBER: P754302

CATALOG NUMBER: LD4D80BD010-EU4DR6070959050-4LBDP1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	942.0	11.6
10°-20°	2548.6	31.3
20°-30°	2742.1	33.7
30°-40°	1191.9	14.7
40°-50°	200.2	2.5
50°-60°	194.7	2.4
60°-70°	166.5	2.0
70°-80°	111.4	1.4
80°-90°	33.3	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°	6232.7	76.7
0°-40°	7424.6	91.3
0°-60°	7819.5	96.2
0°-90°	8130.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8130.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9656	
5°	9856	942
15°	9214	2549
25°	6165	2742
35°	1889	1192
45°	259	200
55°	217	195
65°	168	166
75°	107	111
85°	29	33
90°	0	



TEST NUMBER: P754302

CATALOG NUMBER: LD4D80BD010-EU4DR6070959050-4LBDP1H

CANDELA DISTRIBUTION (FULL):

	0°
0°	9656.2
2.5°	9927.7
5°	9856.0
7.5°	9878.7
10°	9861.1
12.5°	9657.5
15°	9213.9
17.5°	8618.2
20°	7903.2
22.5°	7137.9
25°	6165.2
27.5°	4931.2
30°	3984.9
32.5°	3071.3
35°	1888.8
37.5°	808.0
40°	286.5
42.5°	263.9
45°	258.9
47.5°	250.1
50°	240.0
52.5°	228.7
55°	217.4
57.5°	206.1
60°	194.8
62.5°	182.2
65°	168.4
67.5°	154.6
70°	139.5
72.5°	123.2
75°	106.8
77.5°	88.0
80°	69.1
82.5°	49.0
85°	28.9
87.5°	10.1
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)