

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: P755601

Luminaire Tested: LD4D90BD010-EU4DR4570959035-4LBDP1B

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P755601  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-36)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/30/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D90BD010-EU4DR4570959035-4LBDP1B  
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 45° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7841.8 lumens  
Efficiency: N/A  
Efficacy: 79.3 lumens/watt  
Spacing Criteria (0/90/45): 0.75 / 0.75 / 0.69  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

Input Watts (W): 98.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

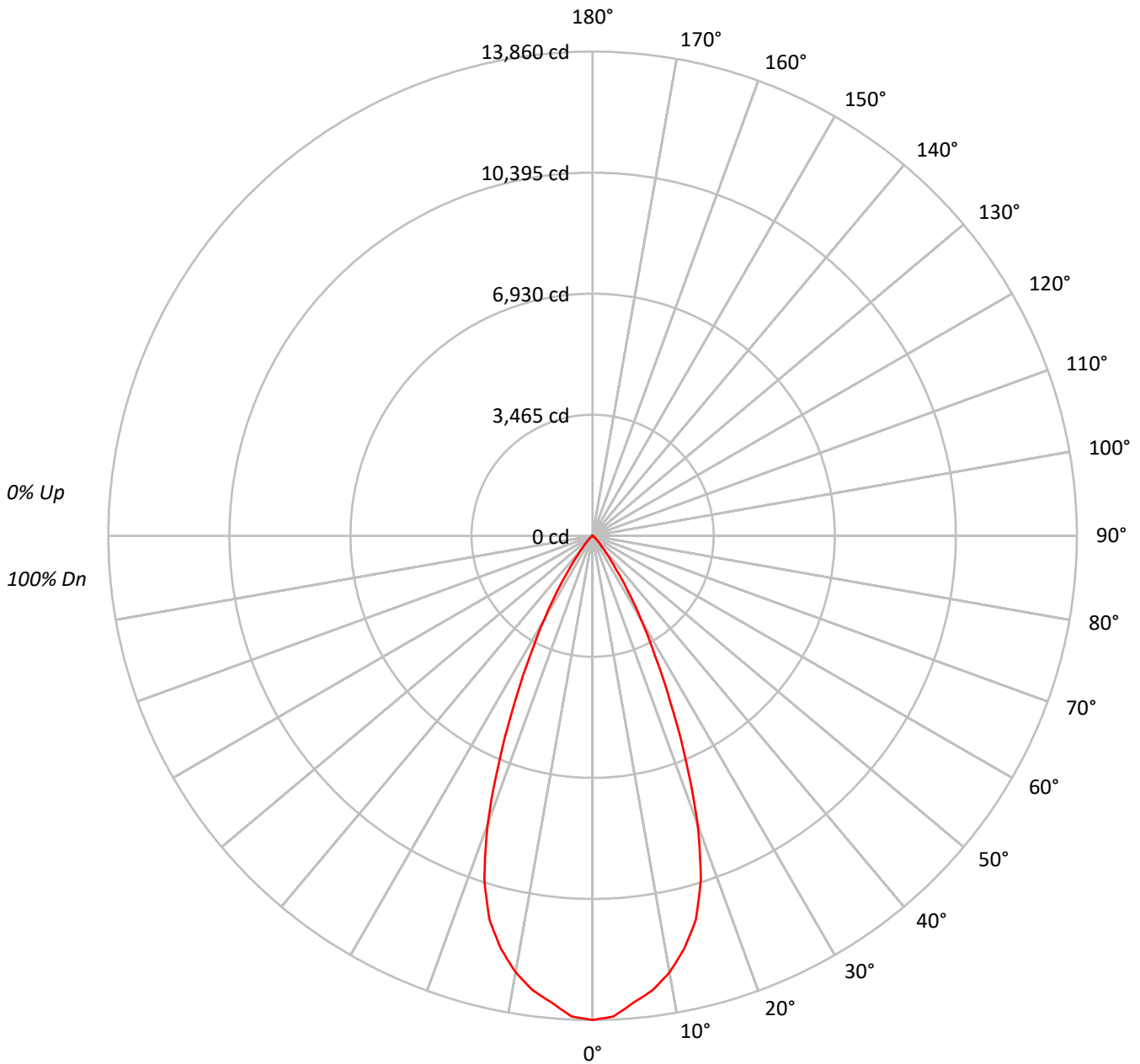


Downlight

TEST NUMBER: P755601

CATALOG NUMBER: LD4D90BD010-EU4DR4570959035-4LBDP1B

### Luminous Intensity Polar Plot





TEST NUMBER: P755601  
 CATALOG NUMBER: LD4D90BD010-EU4DR4570959035-4LBDP1B

**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	114	112	110	108	112	110	108	106	106	104	103	102	101	100	98	98	97	95			95
2	109	105	102	99	107	103	100	98	100	98	95	97	95	93	95	93	91	90			90
3	105	99	95	91	103	98	94	91	95	92	89	93	90	88	91	89	87	85			85
4	100	94	89	85	99	93	88	85	91	87	84	89	86	83	87	84	82	81			81
5	96	89	84	80	95	88	83	80	86	82	79	85	81	79	83	80	78	77			77
6	92	85	80	76	91	84	79	76	83	78	75	81	77	75	80	77	74	73			73
7	89	81	75	72	87	80	75	72	79	74	71	78	74	71	77	73	71	69			69
8	85	77	72	68	84	76	71	68	75	71	68	74	70	67	73	70	67	66			66
9	82	73	68	65	81	73	68	65	72	68	65	71	67	64	71	67	64	63			63
10	79	70	65	62	78	70	65	62	69	65	62	68	64	61	68	64	61	60			60

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	1514398
5°	1471277
10°	1407620
15°	1288267
20°	1022038
25°	638078
30°	351693
35°	157912
40°	62201
45°	29312
50°	13904
55°	7277
60°	3584
65°	853
70°	351
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 29312 cd/sqm



TEST NUMBER: P755601

CATALOG NUMBER: LD4D90BD010-EU4DR4570959035-4LBDP1B

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1260.4	16.1
10°-20°	3102.1	39.6
20°-30°	2456.5	31.3
30°-40°	818.0	10.4
40°-50°	162.4	2.1
50°-60°	36.9	0.5
60°-70°	5.3	0.1
70°-80°	0.1	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°	6819.0	87.0
0°-40°	7637.0	97.4
0°-60°	7836.3	99.9
0°-90°	7841.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7841.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	13860	
5°	13414	###
15°	11389	3102
25°	5293	2457
35°	1184	818
45°	190	162
55°	38	37
65°	3	5
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P755601

CATALOG NUMBER: LD4D90BD010-EU4DR4570959035-4LBDP1B

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	13860.4
2.5°	13769.9
5°	13414.5
7.5°	13121.3
10°	12687.4
12.5°	12109.6
15°	11389.0
17.5°	10305.4
20°	8790.0
22.5°	6984.7
25°	5292.8
27.5°	3875.5
30°	2787.6
32.5°	1895.8
35°	1183.9
37.5°	702.1
40°	436.1
42.5°	286.7
45°	189.7
47.5°	122.1
50°	81.8
52.5°	54.5
55°	38.2
57.5°	25.1
60°	16.4
62.5°	8.7
65°	3.3
67.5°	1.1
70°	1.1
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

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)