

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: P756005

Luminaire Tested: LD4D90BD010-EU4DR7070959040-4LBDP1H

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P756005
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-73)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D90BD010-EU4DR7070959040-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9177.1 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.82
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

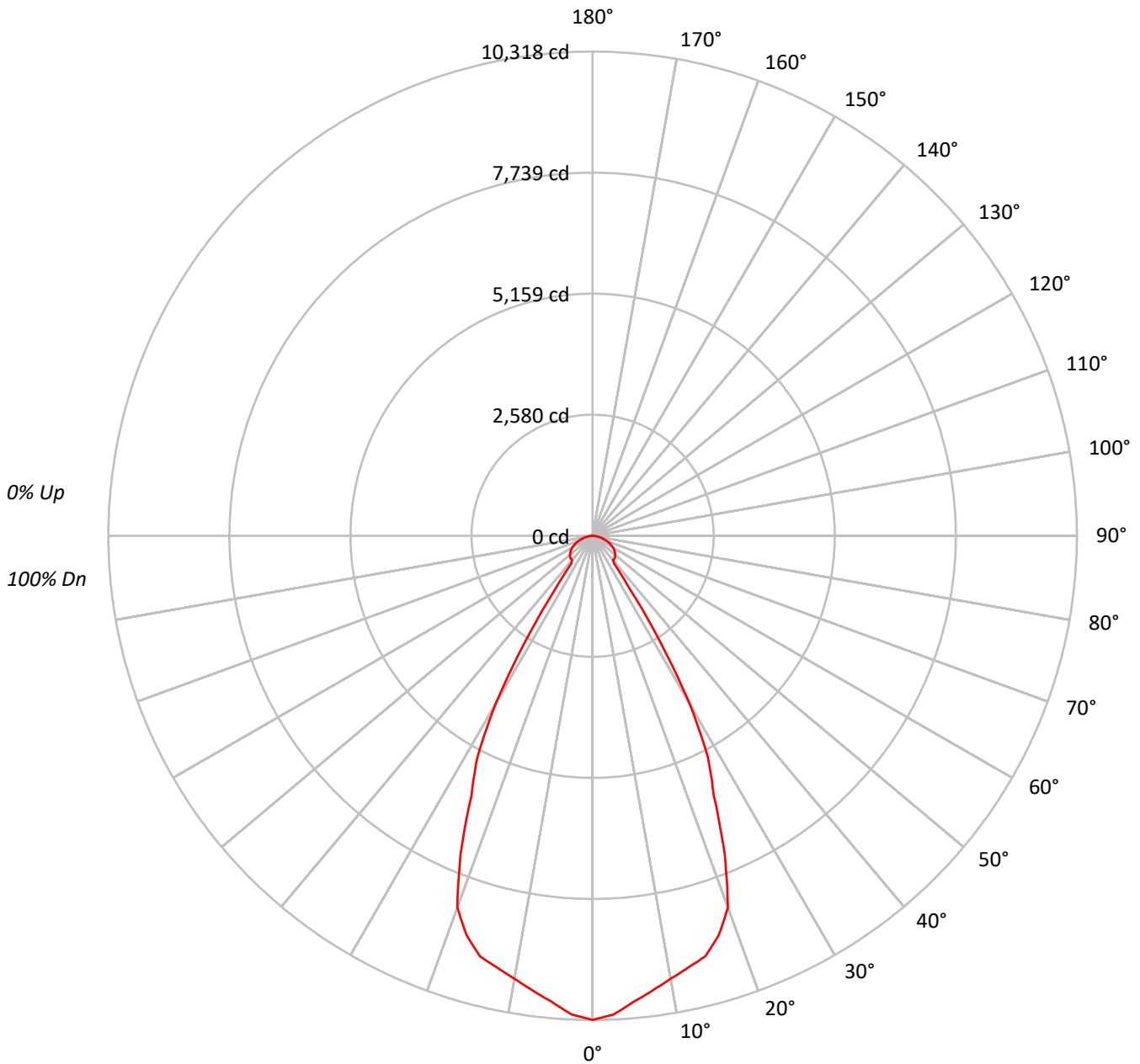
Input Watts (W): 98.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

TEST NUMBER: P756005
CATALOG NUMBER: LD4D90BD010-EU4DR7070959040-4LBDP1H

Luminous Intensity Polar Plot





TEST NUMBER: P756005

CATALOG NUMBER: LD4D90BD010-EU4DR7070959040-4LBDP1H

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																			
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91																			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83																			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76																			
4	94	86	80	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70																			
5	89	80	74	69	87	79	73	69	77	72	68	75	71	67	74	70	67	65																			
6	85	75	68	64	83	74	68	64	73	67	63	71	66	63	70	66	62	61																			
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57																			
8	77	66	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53																			
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50																			
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1127331
5°	1093831
10°	1063342
15°	1049391
20°	979913
25°	736163
30°	520399
35°	184335
40°	96931
45°	103234
50°	106900
55°	108922
60°	109589
65°	107265
70°	101236
75°	93802
80°	83244
85°	67570

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 109627 cd/sqm



TEST NUMBER: P756005

CATALOG NUMBER: LD4D90BD010-EU4DR7070959040-4LBDP1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	940.7	10.3
10°-20°	2580.2	28.1
20°-30°	2841.8	31.0
30°-40°	1085.8	11.8
40°-50°	512.7	5.6
50°-60°	509.7	5.6
60°-70°	408.0	4.4
70°-80°	234.5	2.6
80°-90°	63.7	0.7
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°	6362.7	69.3
0°-40°	7448.5	81.2
0°-60°	8470.8	92.3
0°-90°	9177.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9177.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10318	
5°	9973	941
15°	9277	2580
25°	6106	2842
35°	1382	1086
45°	668	513
55°	572	510
65°	415	408
75°	222	235
85°	54	64
90°	0	



TEST NUMBER: P756005

CATALOG NUMBER: LD4D90BD010-EU4DR7070959040-4LBDP1H

CANDELA DISTRIBUTION (FULL):

	0°
0°	10317.8
2.5°	10210.0
5°	9973.1
7.5°	9775.5
10°	9584.3
12.5°	9422.6
15°	9277.2
17.5°	8926.0
20°	8427.7
22.5°	7352.8
25°	6106.4
27.5°	5315.7
30°	4124.8
32.5°	2664.4
35°	1382.0
37.5°	746.6
40°	679.6
42.5°	674.7
45°	668.1
47.5°	653.4
50°	628.9
52.5°	601.2
55°	571.8
57.5°	539.1
60°	501.5
62.5°	459.0
65°	414.9
67.5°	365.9
70°	316.9
72.5°	267.9
75°	222.2
77.5°	174.8
80°	132.3
82.5°	93.1
85°	53.9
87.5°	21.2
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)