

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: P755967

Luminaire Tested: LD4D90BD010-EU4DR7070959027-4LBDP1LI

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P755967
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-EU4DR7070959027-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8842.5 lumens
Efficiency: N/A
Efficacy: 89.4 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

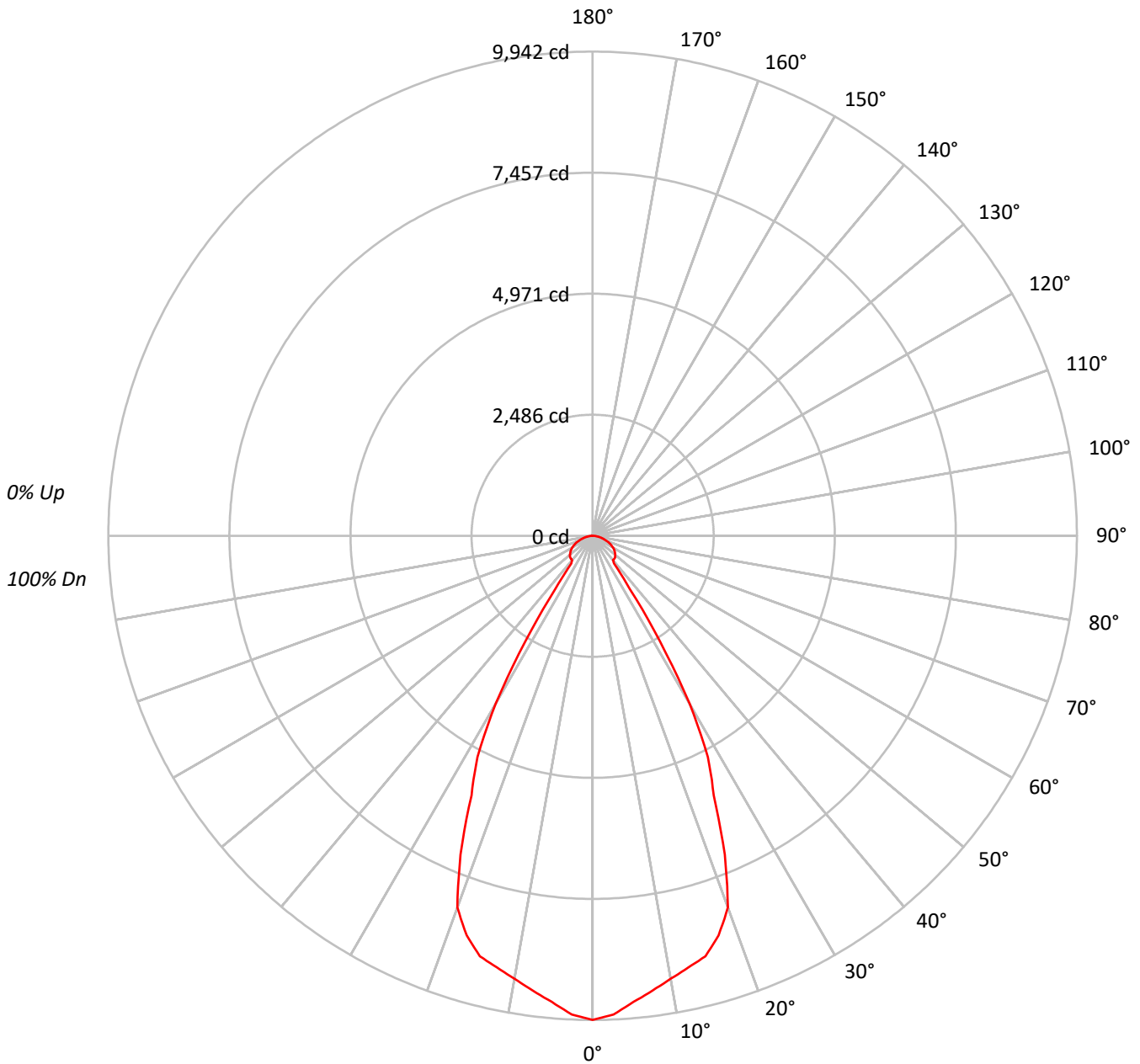


Downlight

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Luminous Intensity Polar Plot





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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°	1086216
5°	1053941
10°	1024567
15°	1011124
20°	944182
25°	709315
30°	501424
35°	177612
40°	93394
45°	99479
50°	103008
55°	104941
60°	105590
65°	103361
70°	97562
75°	90383
80°	80224
85°	65063

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 105621 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	906.4	10.3
10°-20°	2486.1	28.1
20°-30°	2738.2	31.0
30°-40°	1046.2	11.8
40°-50°	494.0	5.6
50°-60°	491.1	5.6
60°-70°	393.2	4.4
70°-80°	226.0	2.6
80°-90°	61.4	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°	6130.7	69.3
0°-40°	7176.8	81.2
0°-60°	8161.9	92.3
0°-90°	8842.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8842.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9942	
5°	9609	906
15°	8939	2486
25°	5884	2738
35°	1332	1046
45°	644	494
55°	551	491
65°	400	393
75°	214	226
85°	52	61
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	9941.5
2.5°	9837.6
5°	9609.4
7.5°	9418.9
10°	9234.8
12.5°	9078.9
15°	8938.9
17.5°	8600.4
20°	8120.4
22.5°	7084.7
25°	5883.7
27.5°	5121.9
30°	3974.4
32.5°	2567.2
35°	1331.6
37.5°	719.3
40°	654.8
42.5°	650.1
45°	643.8
47.5°	629.6
50°	606.0
52.5°	579.2
55°	550.9
57.5°	519.4
60°	483.2
62.5°	442.3
65°	399.8
67.5°	352.6
70°	305.4
72.5°	258.1
75°	214.1
77.5°	168.4
80°	127.5
82.5°	89.7
85°	51.9
87.5°	20.5
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

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— 0°-180°

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(END OF REPORT)