

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: P755928

Luminaire Tested: LD4D90BD010-EU4DR6570959040-4LBDP1LI

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P755928
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-59)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D90BD010-EU4DR6570959040-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8364.9 lumens
Efficiency: N/A
Efficacy: 84.6 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): 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

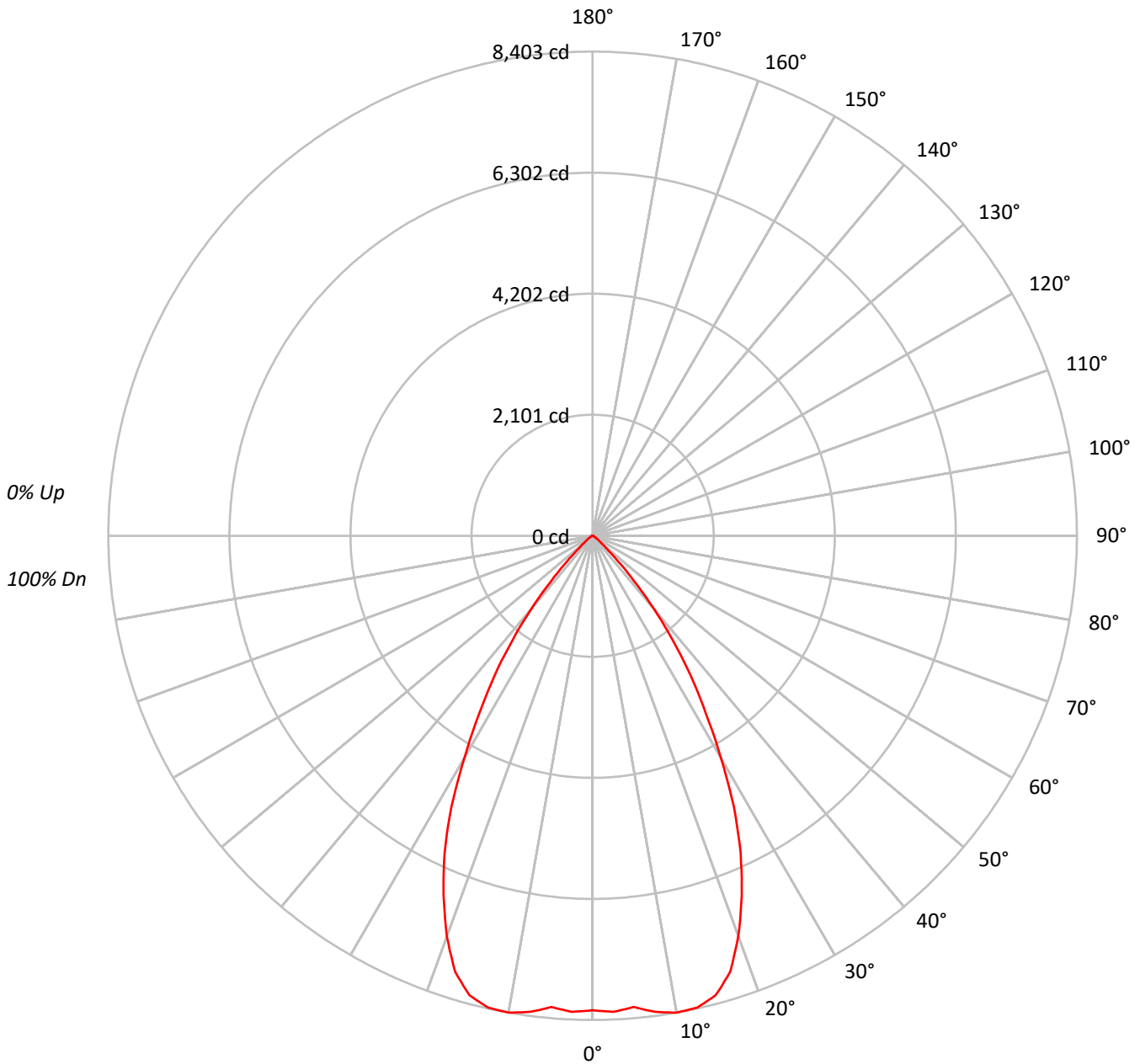


Downlight

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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	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93																			
2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87																			
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80																			
4	97	89	84	79	95	88	83	79	86	82	78	84	80	77	82	79	76	75																			
5	92	83	78	73	90	83	77	73	81	76	72	79	75	72	77	74	71	69																			
6	87	78	72	68	86	77	72	68	76	71	67	74	70	67	73	69	66	65																			
7	83	73	67	63	81	73	67	63	71	66	62	70	66	62	69	65	62	60																			
8	79	69	63	59	77	68	63	59	67	62	58	66	62	58	65	61	58	57																			
9	75	65	59	55	74	65	59	55	64	58	55	63	58	55	62	58	54	53																			
10	71	61	56	52	70	61	55	52	60	55	51	59	55	51	59	54	51	50																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	899850
5°	900589
10°	932293
15°	933844
20°	859756
25°	732558
30°	560797
35°	396200
40°	233870
45°	94936
50°	34421
55°	19182
60°	10992
65°	6050
70°	6357
75°	4939
80°	5160
85°	4388

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 94936 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	793.0	9.5
10°-20°	2287.5	27.3
20°-30°	2744.6	32.8
30°-40°	1844.5	22.1
40°-50°	552.2	6.6
50°-60°	97.5	1.2
60°-70°	27.7	0.3
70°-80°	13.6	0.2
80°-90°	4.3	0.1
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°	5825.2	69.6
0°-40°	7669.7	91.7
0°-60°	8319.3	99.5
0°-90°	8364.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8364.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8236	
5°	8211	793
15°	8256	2288
25°	6076	2745
35°	2970	1844
45°	614	552
55°	101	97
65°	23	28
75°	12	14
85°	4	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	8235.8
2.5°	8270.9
5°	8211.2
7.5°	8335.3
10°	8403.1
12.5°	8386.7
15°	8255.7
17.5°	7935.0
20°	7394.3
22.5°	6757.6
25°	6076.5
27.5°	5307.6
30°	4445.0
32.5°	3663.2
35°	2970.4
37.5°	2285.7
40°	1639.7
42.5°	1070.9
45°	614.4
47.5°	325.4
50°	202.5
52.5°	140.4
55°	100.7
57.5°	72.6
60°	50.3
62.5°	32.8
65°	23.4
67.5°	21.1
70°	19.9
72.5°	15.2
75°	11.7
77.5°	10.5
80°	8.2
82.5°	5.9
85°	3.5
87.5°	2.3
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)