

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: P755811

Luminaire Tested: LD4D90BD010-EU4DR6070959027-4LBDP1LI

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P755811
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: LD4D90BD010-EU4DR6070959027-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8784.9 lumens
Efficiency: N/A
Efficacy: 88.8 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): 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

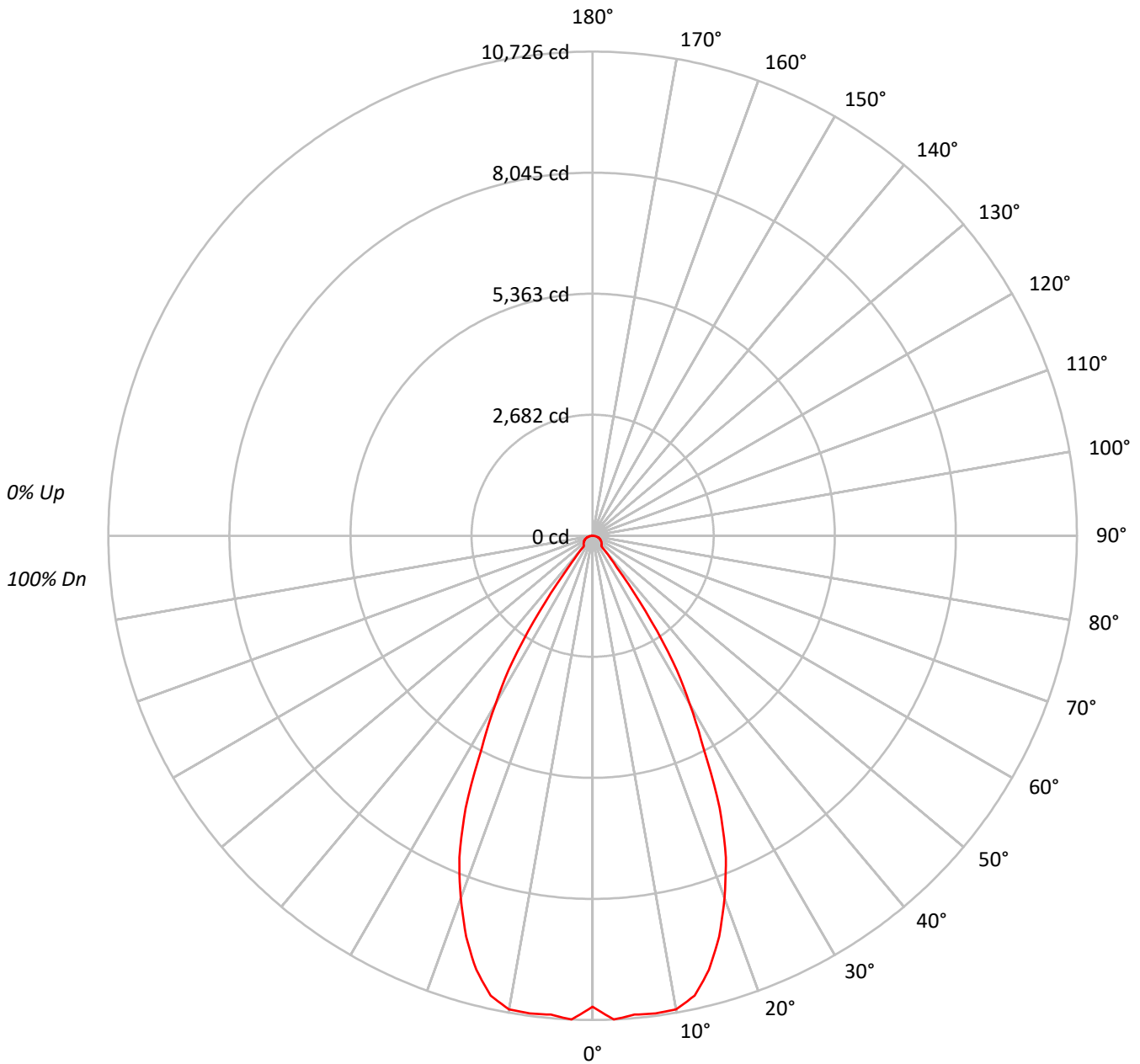


Downlight

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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	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93																			
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86																			
3	102	96	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80																			
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75																			
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70																			
6	88	79	73	69	87	78	73	69	77	72	68	75	71	68	74	70	67	66																			
7	84	75	69	65	83	74	68	64	73	68	64	72	67	64	71	67	63	62																			
8	80	71	65	61	79	70	65	61	69	64	60	68	64	60	67	63	60	59																			
9	77	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55																			
10	73	64	58	54	72	63	58	54	62	58	54	62	57	54	61	57	54	53																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1139939
5°	1167962
10°	1182077
15°	1126083
20°	992866
25°	803059
30°	543197
35°	272194
40°	44158
45°	43219
50°	44076
55°	44746
60°	45999
65°	47027
70°	48142
75°	48716
80°	47002
85°	39113

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 48716 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1017.8	11.6
10°-20°	2753.7	31.3
20°-30°	2962.7	33.7
30°-40°	1287.8	14.7
40°-50°	216.3	2.5
50°-60°	210.3	2.4
60°-70°	179.9	2.0
70°-80°	120.4	1.4
80°-90°	36.0	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°	6734.2	76.7
0°-40°	8022.0	91.3
0°-60°	8448.6	96.2
0°-90°	8784.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8784.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10433	
5°	10649	###
15°	9955	2754
25°	6661	2963
35°	2041	1288
45°	280	216
55°	235	210
65°	182	180
75°	115	120
85°	31	36
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	10433.2
2.5°	10726.4
5°	10649.0
7.5°	10673.5
10°	10654.5
12.5°	10434.5
15°	9955.2
17.5°	9311.6
20°	8539.1
22.5°	7712.2
25°	6661.3
27.5°	5327.9
30°	4305.5
32.5°	3318.4
35°	2040.7
37.5°	873.1
40°	309.6
42.5°	285.1
45°	279.7
47.5°	270.2
50°	259.3
52.5°	247.1
55°	234.9
57.5°	222.7
60°	210.5
62.5°	196.9
65°	181.9
67.5°	167.0
70°	150.7
72.5°	133.1
75°	115.4
77.5°	95.0
80°	74.7
82.5°	53.0
85°	31.2
87.5°	10.9
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)