

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: P744761

Luminaire Tested: LD4D20D010-EU4DR7020359035-4LBDP1LI

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P744761
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: LD4D20D010-EU4DR7020359035-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2063.2 lumens
Efficiency: N/A
Efficacy: 89.3 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): 23.1
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

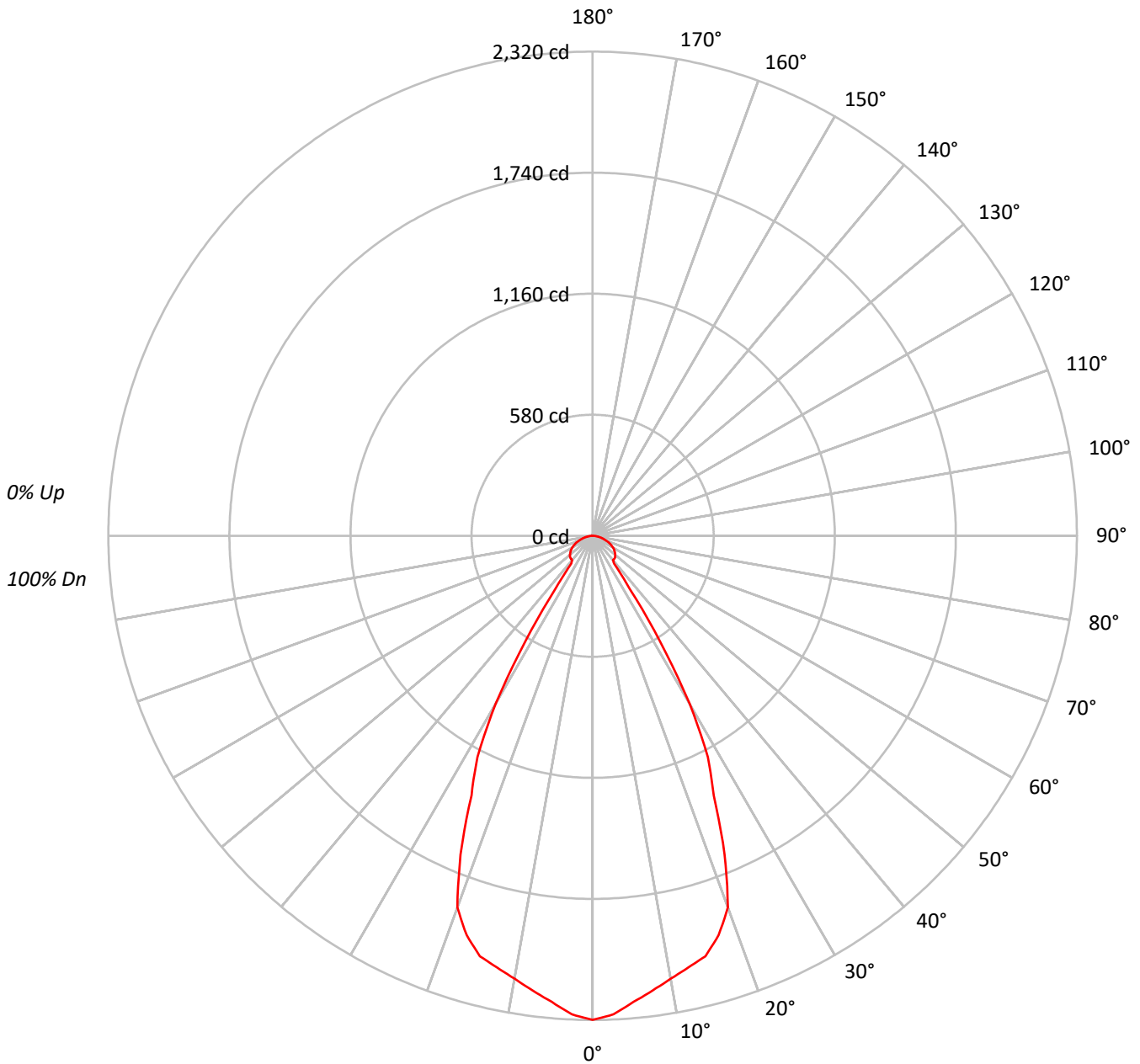


Downlight



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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°	253441
5°	245909
10°	239056
15°	235924
20°	220302
25°	165499
30°	116991
35°	41442
40°	21794
45°	23209
50°	24035
55°	24478
60°	24649
65°	24121
70°	22777
75°	21108
80°	18687
85°	15169

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 60°
 Luminance: 24649 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.5	10.3
10°-20°	580.1	28.1
20°-30°	638.9	31.0
30°-40°	244.1	11.8
40°-50°	115.3	5.6
50°-60°	114.6	5.6
60°-70°	91.8	4.4
70°-80°	52.7	2.6
80°-90°	14.3	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°	1430.4	69.3
0°-40°	1674.5	81.2
0°-60°	1904.4	92.3
0°-90°	2063.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2063.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2320	
5°	2242	211
15°	2086	580
25°	1373	639
35°	311	244
45°	150	115
55°	128	115
65°	93	92
75°	50	53
85°	12	14
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2319.6
2.5°	2295.4
5°	2242.1
7.5°	2197.7
10°	2154.7
12.5°	2118.4
15°	2085.7
17.5°	2006.7
20°	1894.7
22.5°	1653.0
25°	1372.8
27.5°	1195.1
30°	927.3
32.5°	599.0
35°	310.7
37.5°	167.8
40°	152.8
42.5°	151.7
45°	150.2
47.5°	146.9
50°	141.4
52.5°	135.2
55°	128.5
57.5°	121.2
60°	112.8
62.5°	103.2
65°	93.3
67.5°	82.3
70°	71.3
72.5°	60.2
75°	50.0
77.5°	39.3
80°	29.7
82.5°	20.9
85°	12.1
87.5°	4.8
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)