

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: P744449

Luminaire Tested: LD4D20D010-EU4DR5020359035-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P744449
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-44)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D20D010-EU4DR5020359035-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 50° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2120.3 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Spacing Criteria (0/90/45): 0.8 / 0.8 / 0.73
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

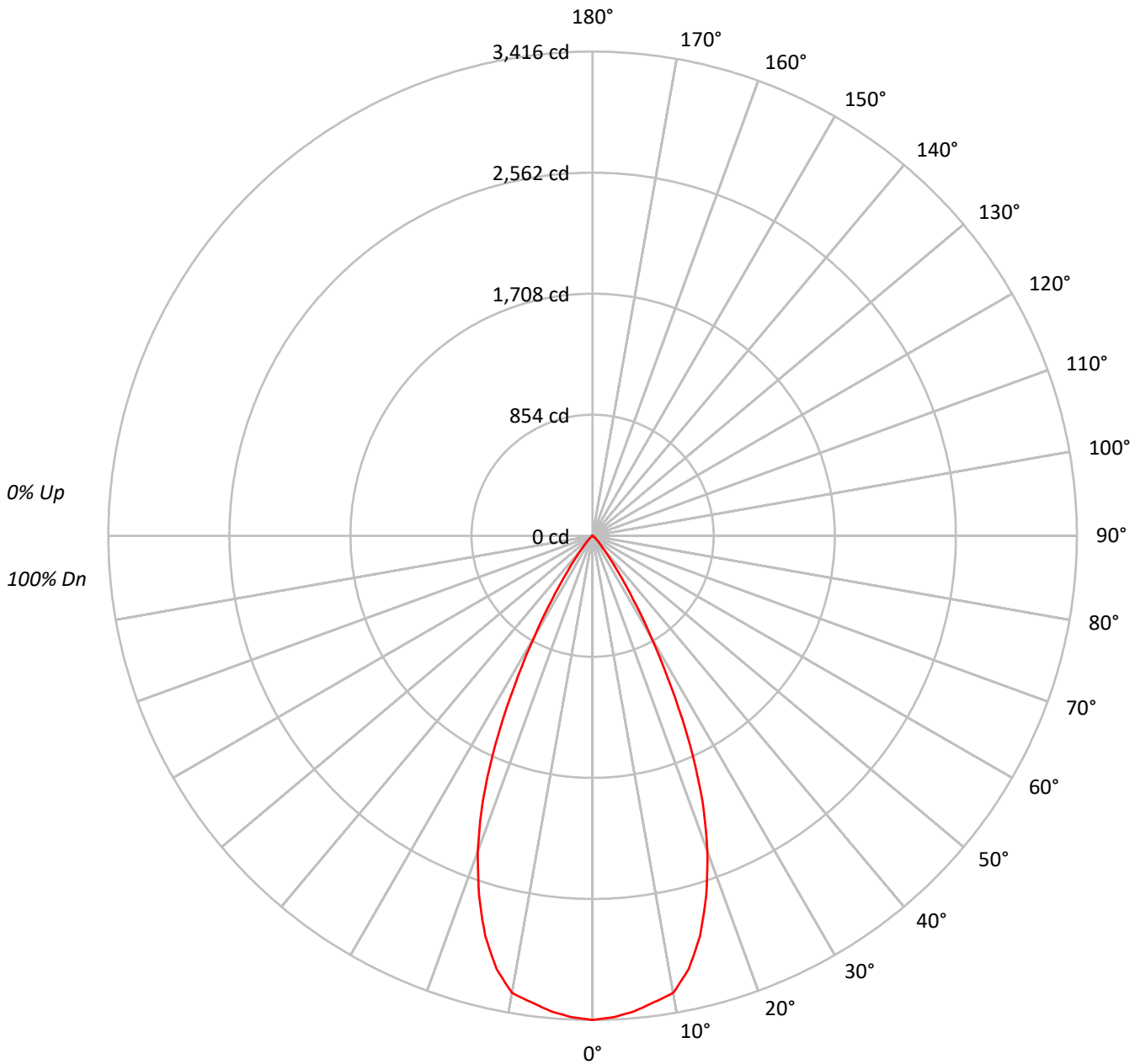


Downlight



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					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	114	112	109	107	112	110	108	106	106	104	102	102	101	99	98	97	97	95				
2	109	105	101	98	107	103	100	97	100	98	95	97	95	93	95	93	91	90				
3	105	99	95	91	103	98	94	90	95	92	89	93	90	88	91	88	86	85				
4	100	94	89	85	99	93	88	85	90	87	84	89	85	83	87	84	82	80				
5	96	89	84	80	95	88	83	79	86	82	79	85	81	78	83	80	77	76				
6	92	84	79	75	91	83	79	75	82	78	74	81	77	74	79	76	74	72				
7	88	80	75	71	87	79	74	71	78	74	71	77	73	70	76	73	70	69				
8	85	76	71	67	84	76	71	67	75	70	67	74	70	67	73	69	66	65				
9	81	73	68	64	80	72	67	64	71	67	64	71	67	64	70	66	63	62				
10	78	70	64	61	77	69	64	61	68	64	61	68	64	61	67	63	60	59				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	373268
5°	369363
10°	363282
15°	330794
20°	275253
25°	195397
30°	103416
35°	42149
40°	15646
45°	7170
50°	2941
55°	1543
60°	743
65°	233
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7170 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.3	15.0
10°-20°	804.4	37.9
20°-30°	722.6	34.1
30°-40°	226.2	10.7
40°-50°	39.6	1.9
50°-60°	7.9	0.4
60°-70°	1.2	0.1
70°-80°	0.0	0.0
80°-90°	0.0	0.0
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°	1845.4	87.0
0°-40°	2071.6	97.7
0°-60°	2119.1	99.9
0°-90°	2120.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2120.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3416	
5°	3368	318
15°	2924	804
25°	1621	723
35°	316	226
45°	46	40
55°	8	8
65°	1	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3416.3
2.5°	3399.4
5°	3367.7
7.5°	3319.3
10°	3274.4
12.5°	3130.3
15°	2924.4
17.5°	2662.8
20°	2367.3
22.5°	2025.4
25°	1620.8
27.5°	1191.6
30°	819.7
32.5°	533.7
35°	316.0
37.5°	181.5
40°	109.7
42.5°	71.4
45°	46.4
47.5°	28.2
50°	17.3
52.5°	11.8
55°	8.1
57.5°	5.5
60°	3.4
62.5°	2.0
65°	0.9
67.5°	0.3
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
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)