

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: P744617

Luminaire Tested: LD4D20D010-EU4DR6020359040-4LBDP1H

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P744617
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: LD4D20D010-EU4DR6020359040-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2006.2 lumens
Efficiency: N/A
Efficacy: 86.8 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): 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

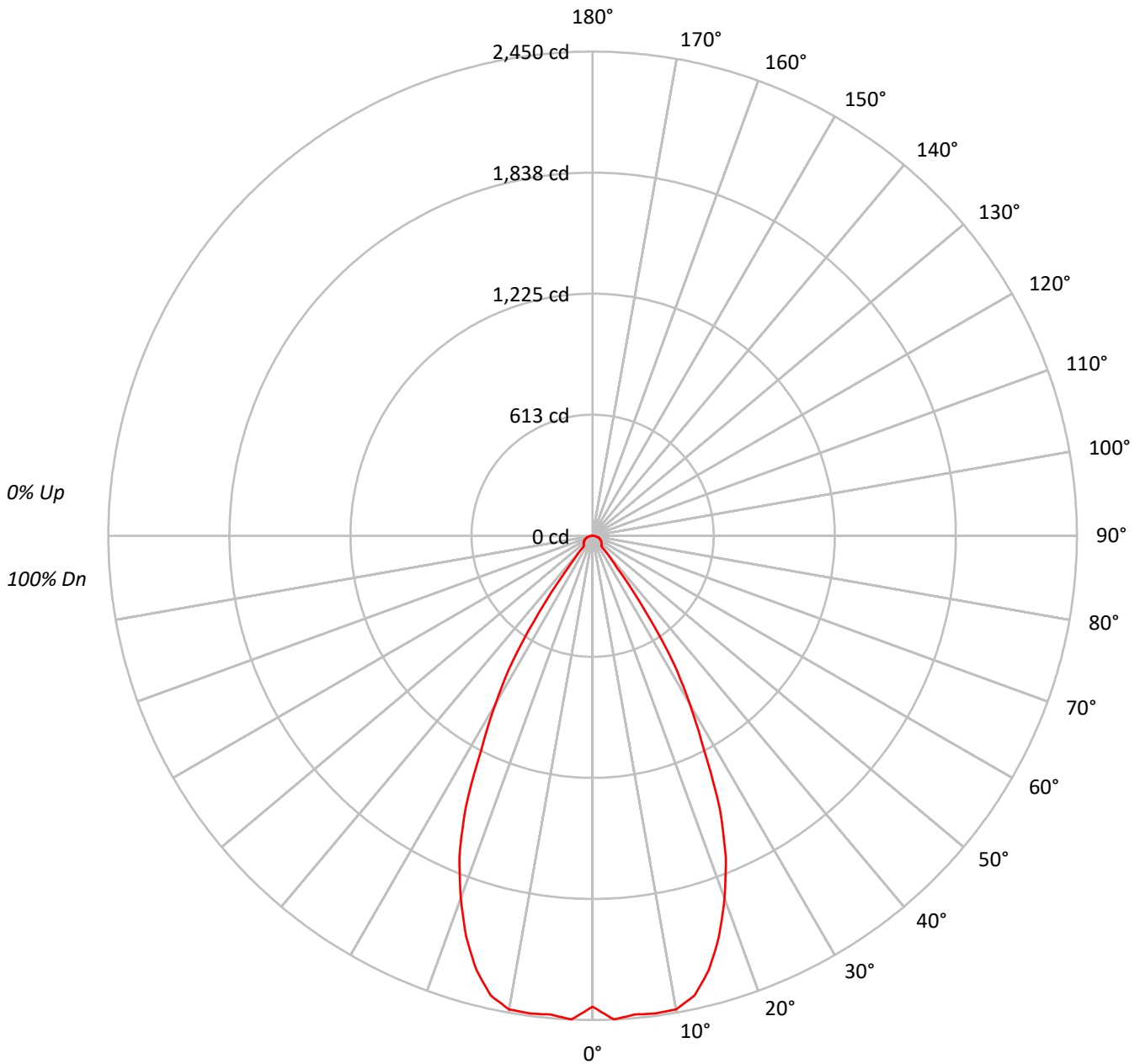


Downlight



TEST NUMBER: P744617
CATALOG NUMBER: LD4D20D010-EU4DR6020359040-4LBDP1H

Luminous Intensity Polar Plot





TEST NUMBER: P744617

CATALOG NUMBER: LD4D20D010-EU4DR6020359040-4LBDP1H

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			100																
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93			93																
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86			86																
3	102	96	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80			80																
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75			75																
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70			70																
6	88	79	73	69	87	78	73	69	77	72	68	75	71	68	74	70	67	66			66																
7	84	75	69	65	83	74	68	64	73	68	64	72	67	64	71	67	63	62			62																
8	80	71	65	61	79	70	65	61	69	64	60	68	64	60	67	63	60	59			59																
9	77	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55			55																
10	73	64	58	54	72	63	58	54	62	58	54	62	57	54	61	57	54	53			53																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	260314
5°	266715
10°	269932
15°	257156
20°	226732
25°	183390
30°	124044
35°	62156
40°	10084
45°	9874
50°	10063
55°	10210
60°	10511
65°	10729
70°	10989
75°	11145
80°	10759
85°	8901

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 11145 cd/sqm



TEST NUMBER: P744617

CATALOG NUMBER: LD4D20D010-EU4DR6020359040-4LBDP1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.4	11.6
10°-20°	628.8	31.3
20°-30°	676.6	33.7
30°-40°	294.1	14.7
40°-50°	49.4	2.5
50°-60°	48.0	2.4
60°-70°	41.1	2.0
70°-80°	27.5	1.4
80°-90°	8.2	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°	1537.8	76.7
0°-40°	1831.9	91.3
0°-60°	1929.3	96.2
0°-90°	2006.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2006.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2382	
5°	2432	232
15°	2273	629
25°	1521	677
35°	466	294
45°	64	49
55°	54	48
65°	42	41
75°	26	28
85°	7	8
90°	0	



TEST NUMBER: P744617

CATALOG NUMBER: LD4D20D010-EU4DR6020359040-4LBDP1H

CANDELA DISTRIBUTION (FULL):

	0°
0°	2382.5
2.5°	2449.5
5°	2431.8
7.5°	2437.4
10°	2433.0
12.5°	2382.8
15°	2273.4
17.5°	2126.4
20°	1950.0
22.5°	1761.1
25°	1521.2
27.5°	1216.7
30°	983.2
32.5°	757.8
35°	466.0
37.5°	199.4
40°	70.7
42.5°	65.1
45°	63.9
47.5°	61.7
50°	59.2
52.5°	56.4
55°	53.6
57.5°	50.9
60°	48.1
62.5°	45.0
65°	41.5
67.5°	38.2
70°	34.4
72.5°	30.4
75°	26.4
77.5°	21.7
80°	17.1
82.5°	12.1
85°	7.1
87.5°	2.5
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

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



— 0°-180°

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)