

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: P748066

Luminaire Tested: LD4D40BD010-EU4DR6040509050-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P748066
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-60)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D40BD010-EU4DR6040509050-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4230.6 lumens
Efficiency: N/A
Efficacy: 120.2 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): 35.2
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

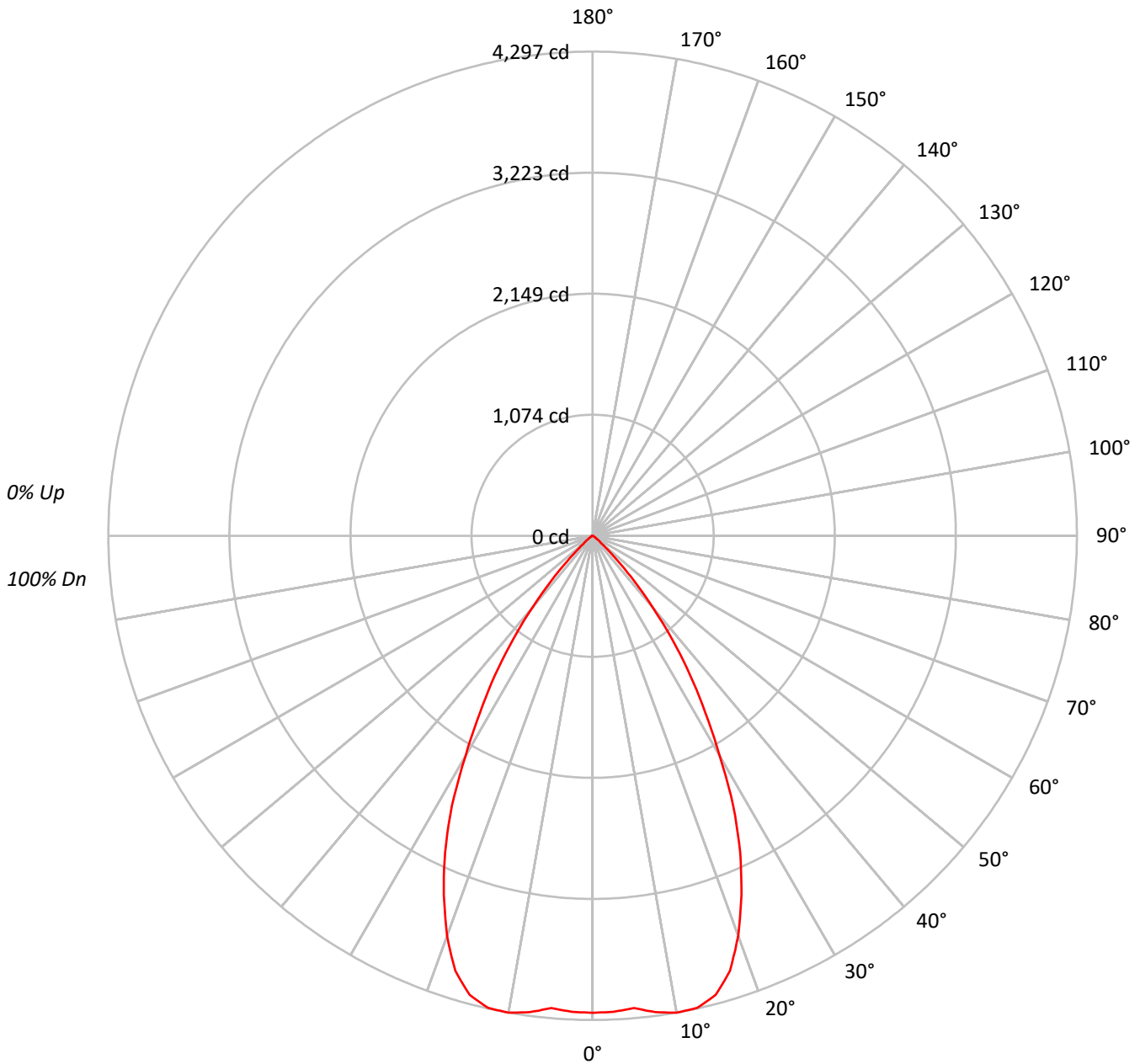


Downlight

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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94
2	108	103	99	96	106	101	98	95	98	95	92	95	93	90	92	90	89	87
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81
4	97	90	84	80	95	88	83	79	86	82	78	84	81	78	82	79	77	75
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70
6	87	79	73	68	86	78	72	68	76	71	68	75	70	67	74	70	67	65
7	83	74	68	63	82	73	67	63	72	67	63	71	66	63	69	65	62	61
8	79	69	63	59	78	69	63	59	68	63	59	67	62	59	66	61	58	57
9	75	65	59	55	74	65	59	55	64	59	55	63	58	55	62	58	55	53
10	72	62	56	52	71	61	56	52	61	55	52	60	55	52	59	55	52	50

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	462577
5°	461449
10°	476781
15°	477266
20°	439139
25°	373518
30°	284612
35°	201261
40°	118183
45°	47684
50°	15927
55°	7658
60°	3147
65°	465
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 47684 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.9	9.6
10°-20°	1168.9	27.6
20°-30°	1399.0	33.1
30°-40°	935.7	22.1
40°-50°	277.4	6.6
50°-60°	39.9	0.9
60°-70°	3.8	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°	2973.8	70.3
0°-40°	3909.5	92.4
0°-60°	4226.8	99.9
0°-90°	4230.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4230.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4234	
5°	4207	406
15°	4219	1169
25°	3098	1399
35°	1509	936
45°	309	277
55°	40	40
65°	2	4
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4233.7
2.5°	4228.3
5°	4207.3
7.5°	4264.3
10°	4297.4
12.5°	4291.4
15°	4219.3
17.5°	4049.4
20°	3776.8
22.5°	3449.5
25°	3098.3
27.5°	2702.6
30°	2255.9
32.5°	1857.2
35°	1508.9
37.5°	1160.1
40°	828.6
42.5°	546.4
45°	308.6
47.5°	157.9
50°	93.7
52.5°	60.6
55°	40.2
57.5°	25.8
60°	14.4
62.5°	6.0
65°	1.8
67.5°	0.6
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)