

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: P748012

Luminaire Tested: LD4D40BD010-EU4DR6040509027-4LBDP1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P748012
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: LD4D40BD010-EU4DR6040509027-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3316.3 lumens
Efficiency: N/A
Efficacy: 94.2 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): 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

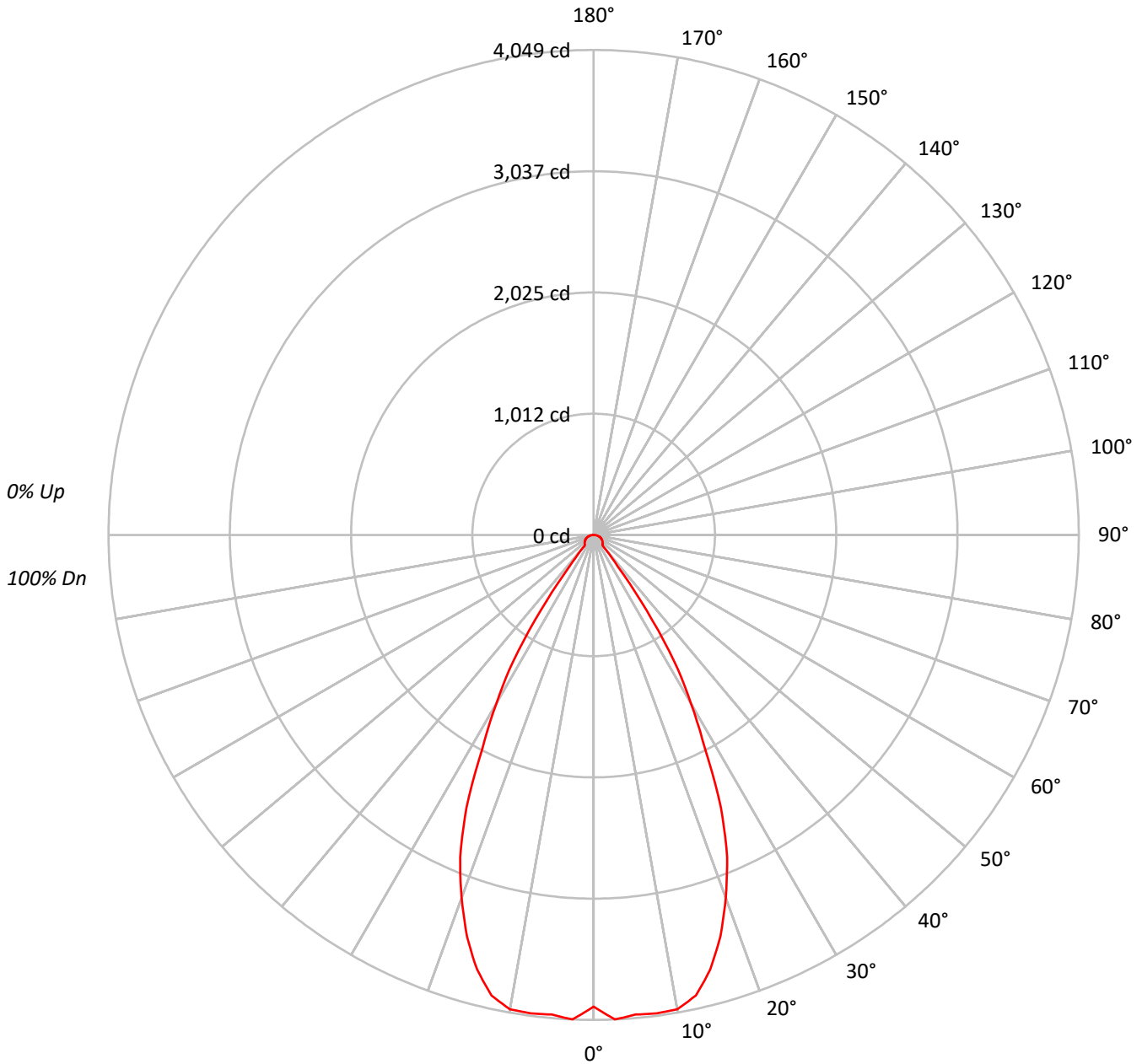


Downlight

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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°	430323
5°	440906
10°	446237
15°	425098
20°	374806
25°	303150
30°	205053
35°	102758
40°	16673
45°	16317
50°	16641
55°	16896
60°	17351
65°	17761
70°	18177
75°	18406
80°	17744
85°	14793

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 18406 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	384.2	11.6
10°-20°	1039.5	31.3
20°-30°	1118.4	33.7
30°-40°	486.2	14.7
40°-50°	81.7	2.5
50°-60°	79.4	2.4
60°-70°	67.9	2.0
70°-80°	45.4	1.4
80°-90°	13.6	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°	2542.1	76.7
0°-40°	3028.3	91.3
0°-60°	3189.4	96.2
0°-90°	3316.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3316.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3938	
5°	4020	384
15°	3758	1040
25°	2515	1118
35°	770	486
45°	106	82
55°	89	79
65°	69	68
75°	44	45
85°	12	14
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3938.5
2.5°	4049.2
5°	4020.0
7.5°	4029.2
10°	4022.1
12.5°	3939.0
15°	3758.1
17.5°	3515.1
20°	3223.5
22.5°	2911.3
25°	2514.6
27.5°	2011.3
30°	1625.3
32.5°	1252.7
35°	770.4
37.5°	329.6
40°	116.9
42.5°	107.6
45°	105.6
47.5°	102.0
50°	97.9
52.5°	93.3
55°	88.7
57.5°	84.1
60°	79.4
62.5°	74.3
65°	68.7
67.5°	63.0
70°	56.9
72.5°	50.2
75°	43.6
77.5°	35.9
80°	28.2
82.5°	20.0
85°	11.8
87.5°	4.1
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)