

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: P748038

Luminaire Tested: LD4D40BD010-EU4DR6040509035-4LBDP1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P748038
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-EU4DR6040509035-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3452.5 lumens
Efficiency: N/A
Efficacy: 98.1 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

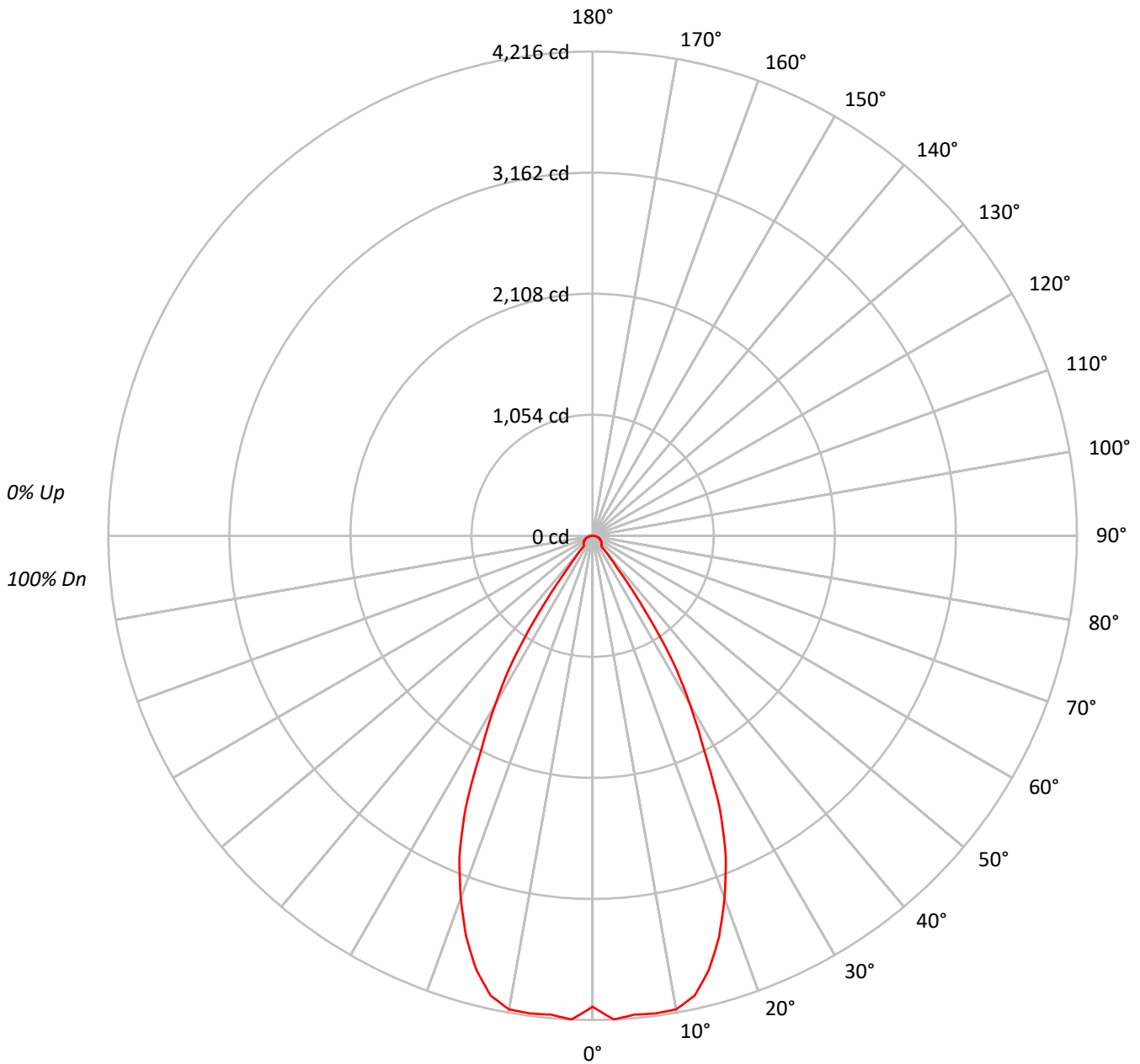
Input Watts (W): 35.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	448002
5°	459014
10°	464565
15°	442551
20°	390200
25°	315603
30°	213481
35°	106973
40°	17358
45°	16982
50°	17321
55°	17582
60°	18072
65°	18485
70°	18912
75°	19166
80°	18436
85°	15420

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 19166 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	400.0	11.6
10°-20°	1082.2	31.3
20°-30°	1164.4	33.7
30°-40°	506.1	14.7
40°-50°	85.0	2.5
50°-60°	82.6	2.4
60°-70°	70.7	2.0
70°-80°	47.3	1.4
80°-90°	14.2	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°	2646.6	76.7
0°-40°	3152.7	91.3
0°-60°	3320.3	96.2
0°-90°	3452.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3452.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4100	
5°	4185	400
15°	3912	1082
25°	2618	1164
35°	802	506
45°	110	85
55°	92	83
65°	72	71
75°	45	47
85°	12	14
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4100.3
2.5°	4215.5
5°	4185.1
7.5°	4194.7
10°	4187.3
12.5°	4100.8
15°	3912.4
17.5°	3659.5
20°	3355.9
22.5°	3030.9
25°	2617.9
27.5°	2093.9
30°	1692.1
32.5°	1304.1
35°	802.0
37.5°	343.1
40°	121.7
42.5°	112.1
45°	109.9
47.5°	106.2
50°	101.9
52.5°	97.1
55°	92.3
57.5°	87.5
60°	82.7
62.5°	77.4
65°	71.5
67.5°	65.6
70°	59.2
72.5°	52.3
75°	45.4
77.5°	37.4
80°	29.3
82.5°	20.8
85°	12.3
87.5°	4.3
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)