

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: P748512

Luminaire Tested: LD4D45BD010-EU4DR4040509035-4LBSQW1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P748512
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-28)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D45BD010-EU4DR4040509035-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 40° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

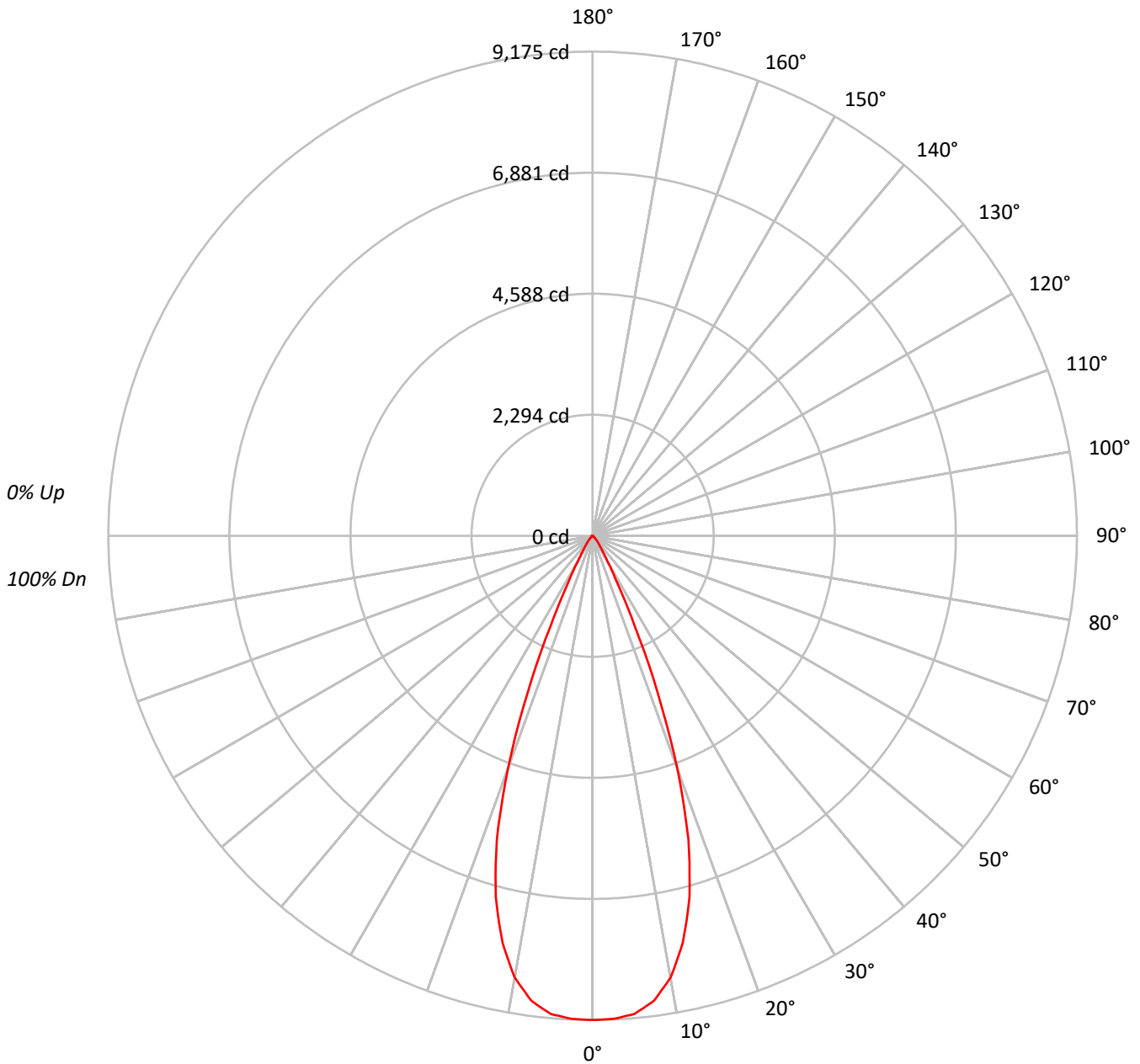
Lumens per Lamp: N/A
Luminaire Lumens: 3940.8 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.6
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 38.7
Input Voltage (V): NR
Input Current (Ain): 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



TEST NUMBER: P748512
CATALOG NUMBER: LD4D45BD010-EU4DR4040509035-4LBSQW1MW

Luminous Intensity Polar Plot





TEST NUMBER: P748512

CATALOG NUMBER: LD4D45BD010-EU4DR4040509035-4LBSQW1MW

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	115	112	110	108	112	110	108	107	106	105	103	103	101	100	99	98	97	96			96																
2	110	106	103	100	108	105	102	99	102	99	97	99	97	95	96	95	93	92			92																
3	106	101	97	94	104	100	96	93	97	94	92	95	93	90	93	91	89	88			88																
4	102	97	92	89	101	95	91	88	93	90	87	92	89	86	90	87	85	84			84																
5	99	92	88	84	97	91	87	84	90	86	83	88	85	83	87	84	82	81			81																
6	95	88	84	80	94	88	83	80	86	82	80	85	82	79	84	81	79	77			77																
7	92	85	80	77	91	84	80	77	83	79	76	82	79	76	81	78	76	74			74																
8	89	82	77	74	88	81	77	74	80	76	73	79	76	73	78	75	73	72			72																
9	86	79	74	71	85	78	74	71	77	73	71	76	73	70	76	72	70	69			69																
10	83	76	71	68	82	75	71	68	75	71	68	74	70	68	73	70	68	67			67																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1002500
5°	997621
10°	942977
15°	801646
20°	546378
25°	227971
30°	71686
35°	33319
40°	18428
45°	8452
50°	4097
55°	2248
60°	1180
65°	414
70°	160
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8452 cd/sqm



TEST NUMBER: P748512

CATALOG NUMBER: LD4D45BD010-EU4DR4040509035-4LBSQW1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	849.3	21.6
10°-20°	1902.7	48.3
20°-30°	952.4	24.2
30°-40°	174.6	4.4
40°-50°	48.2	1.2
50°-60°	11.3	0.3
60°-70°	2.2	0.1
70°-80°	0.1	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°	3704.5	94.0
0°-40°	3879.1	98.4
0°-60°	3938.6	99.9
0°-90°	3940.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3940.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9175	
5°	9096	849
15°	7087	1903
25°	1891	952
35°	250	175
45°	55	48
55°	12	11
65°	2	2
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P748512

CATALOG NUMBER: LD4D45BD010-EU4DR4040509035-4LBSQW1MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	9175.3
2.5°	9161.9
5°	9095.9
7.5°	8885.8
10°	8499.4
12.5°	7896.9
15°	7087.0
17.5°	6033.8
20°	4699.1
22.5°	3203.7
25°	1891.0
27.5°	999.6
30°	568.2
32.5°	367.2
35°	249.8
37.5°	178.5
40°	129.2
42.5°	88.4
45°	54.7
47.5°	34.8
50°	24.1
52.5°	17.2
55°	11.8
57.5°	7.5
60°	5.4
62.5°	3.2
65°	1.6
67.5°	1.1
70°	0.5
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

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)