

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: P766905

Luminaire Tested: LD6D45BD010-EU6DR6040509050-6LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P766905
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: LD6D45BD010-EU6DR6040509050-6LBDP1B
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4125.5 lumens
Efficiency: N/A
Efficacy: 106.6 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

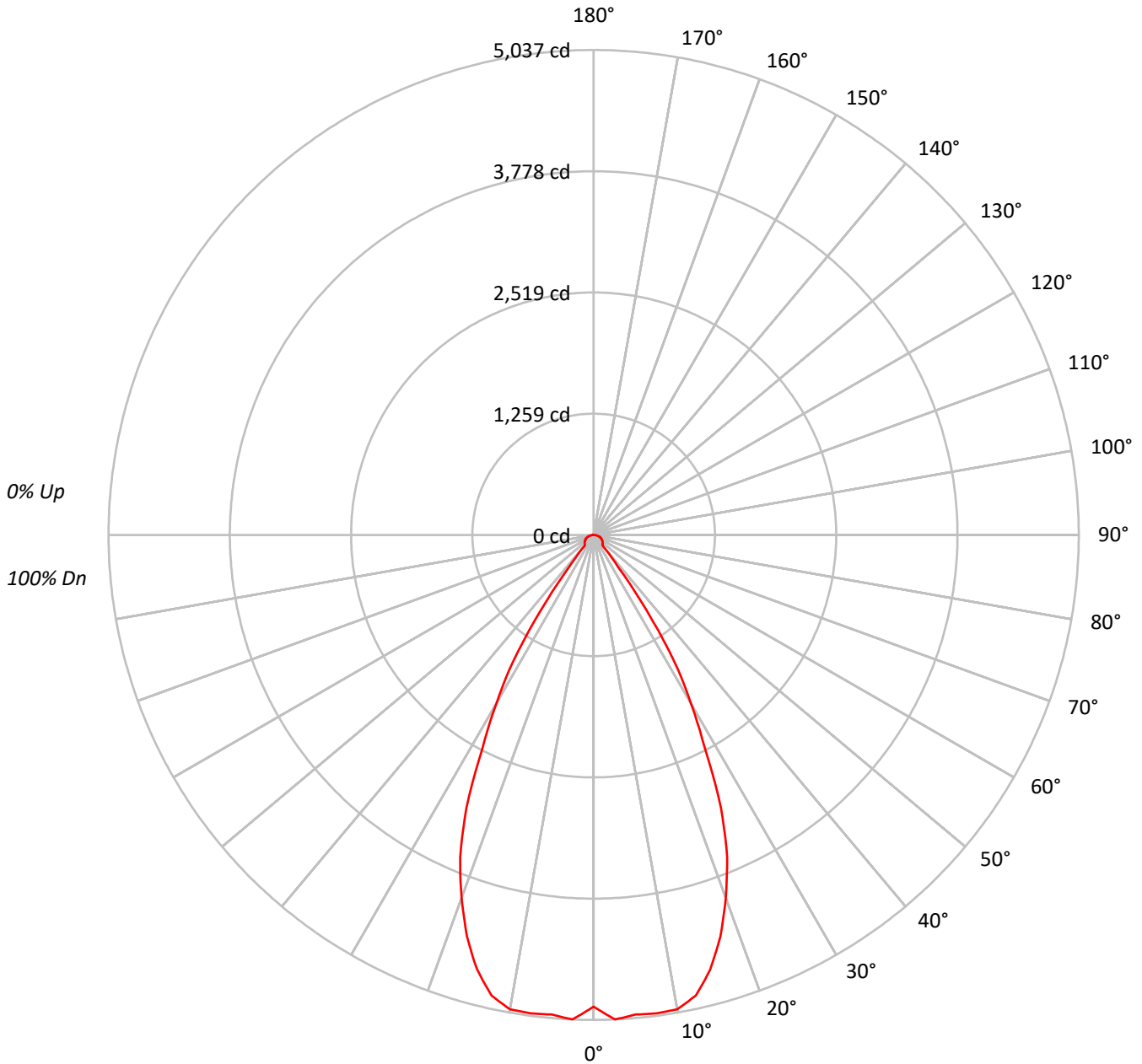
Input Watts (W): 38.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

TEST NUMBER: P766905
CATALOG NUMBER: LD6D45BD010-EU6DR6040509050-6LBDP1B

Luminous Intensity Polar Plot





TEST NUMBER: P766905

CATALOG NUMBER: LD6D45BD010-EU6DR6040509050-6LBDP1B

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°	535334
5°	548500
10°	555120
15°	528824
20°	466266
25°	377123
30°	255090
35°	127834
40°	20738
45°	20304
50°	20704
55°	21011
60°	21590
65°	22079
70°	22618
75°	22881
80°	22085
85°	18428

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 22881 cd/sqm



TEST NUMBER: P766905

CATALOG NUMBER: LD6D45BD010-EU6DR6040509050-6LBDP1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	478.0	11.6
10°-20°	1293.2	31.3
20°-30°	1391.3	33.7
30°-40°	604.8	14.7
40°-50°	101.6	2.5
50°-60°	98.8	2.4
60°-70°	84.5	2.0
70°-80°	56.5	1.4
80°-90°	16.9	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°	3162.5	76.7
0°-40°	3767.3	91.3
0°-60°	3967.6	96.2
0°-90°	4125.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4125.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4900	
5°	5001	478
15°	4675	1293
25°	3128	1391
35°	958	605
45°	131	102
55°	110	99
65°	85	84
75°	54	57
85°	15	17
90°	0	



TEST NUMBER: P766905
CATALOG NUMBER: LD6D45BD010-EU6DR6040509050-6LBDP1B

CANDELA DISTRIBUTION (FULL):

	0°
0°	4899.6
2.5°	5037.3
5°	5001.0
7.5°	5012.4
10°	5003.5
12.5°	4900.2
15°	4675.1
17.5°	4372.9
20°	4010.1
22.5°	3621.8
25°	3128.2
27.5°	2502.1
30°	2021.9
32.5°	1558.4
35°	958.4
37.5°	410.0
40°	145.4
42.5°	133.9
45°	131.4
47.5°	126.9
50°	121.8
52.5°	116.0
55°	110.3
57.5°	104.6
60°	98.8
62.5°	92.5
65°	85.4
67.5°	78.4
70°	70.8
72.5°	62.5
75°	54.2
77.5°	44.6
80°	35.1
82.5°	24.9
85°	14.7
87.5°	5.1
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

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)