

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: P766375

Luminaire Tested: LD6D45BD010-EU6DR3040509024-6LBDP1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P766375
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD6D45BD010-EU6DR3040509024-6LBDP1MW
Description: 6 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3660.4 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

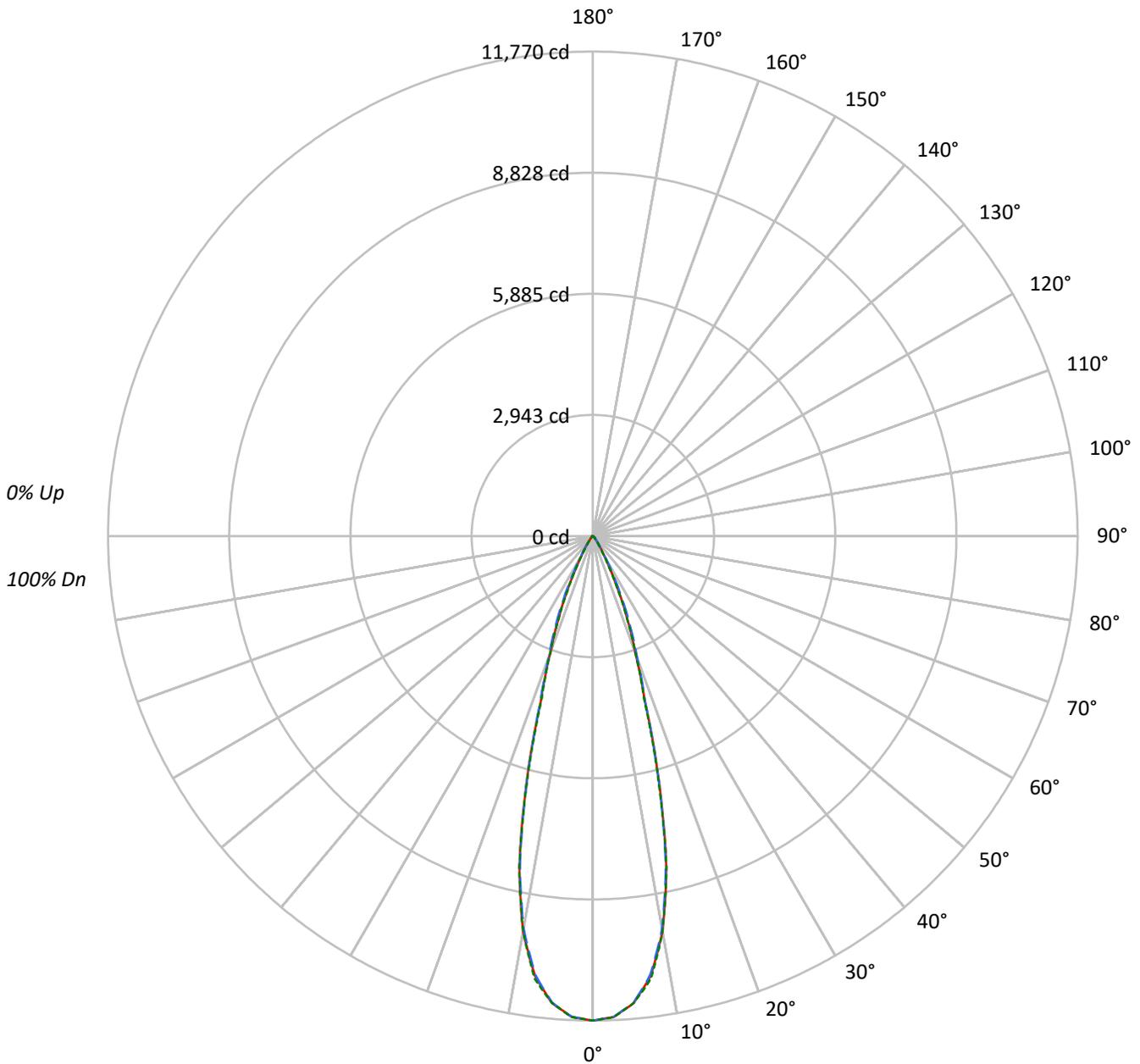
Input Watts (W): 38.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

TEST NUMBER: P766375
CATALOG NUMBER: LD6D45BD010-EU6DR3040509024-6LBDP1MW

Luminous Intensity Polar Plot





TEST NUMBER: P766375

CATALOG NUMBER: LD6D45BD010-EU6DR3040509024-6LBDP1MW

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	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	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96						96													
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92						92													
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89						89													
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85						85													
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82						82													
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79						79													
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77						77													
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74						74													
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72						72													
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69						69													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	900916	900916	900916
5°	875052	874030	875098
10°	757928	752580	757749
15°	494511	491857	489384
20°	245899	255120	245565
25°	123864	139682	121330
30°	49593	54038	43211
35°	23005	22034	18464
40°	9932	11031	9353
45°	7004	8692	7069
50°	2405	6335	2548
55°	1388	2616	1468
60°	980	1148	980
65°	634	634	634
70°	380	269	380
75°	0	177	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 8692 cd/sqm



TEST NUMBER: P766375

CATALOG NUMBER: LD6D45BD010-EU6DR3040509024-6LBDP1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1035.0	28.3
10°-20°	1666.9	45.5
20°-30°	720.3	19.7
30°-40°	164.2	4.5
40°-50°	56.4	1.5
50°-60°	13.8	0.4
60°-70°	3.6	0.1
70°-80°	0.4	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°	3422.2	93.5
0°-40°	3586.3	98.0
0°-60°	3656.5	99.9
0°-90°	3660.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3660.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11770	11770	11770	11770	11770	
5°	11389	11378	11375	11399	11389	1036
15°	6240	6165	6207	6187	6176	1671
25°	1467	1522	1654	1483	1437	702
35°	246	251	236	234	198	167
45°	65	80	80	80	65	46
55°	10	11	20	12	11	10
65°	4	4	4	4	4	3
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P766375

CATALOG NUMBER: LD6D45BD010-EU6DR3040509024-6LBDP1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11770.0	11770.0	11770.0	11770.0	11770.0
2.5°	11692.0	11683.9	11688.5	11694.3	11696.6
5°	11388.6	11377.6	11375.3	11399.0	11389.2
7.5°	10776.6	10761.0	10737.4	10791.1	10841.4
10°	9751.5	9734.2	9682.7	9708.2	9749.2
12.5°	8238.1	8182.0	8180.9	8261.8	8250.8
15°	6240.4	6165.3	6206.9	6186.6	6175.7
17.5°	4196.5	4167.6	4223.1	4206.3	4134.1
20°	3018.8	3026.3	3132.0	3078.9	3014.7
22.5°	2202.8	2230.0	2355.4	2218.4	2168.2
25°	1466.6	1522.1	1653.9	1483.4	1436.6
27.5°	902.1	927.5	1061.0	890.5	865.1
30°	561.1	548.4	611.4	524.7	488.9
32.5°	368.1	351.9	372.1	334.0	305.1
35°	246.2	251.4	235.8	234.0	197.6
37.5°	153.7	176.8	156.0	166.4	127.1
40°	99.4	128.3	110.4	121.9	93.6
42.5°	81.5	98.8	90.7	96.5	83.2
45°	64.7	80.3	80.3	80.3	65.3
47.5°	35.8	53.7	68.8	54.9	38.1
50°	20.2	27.2	53.2	28.3	21.4
52.5°	13.9	15.6	36.4	16.2	14.4
55°	10.4	11.0	19.6	11.6	11.0
57.5°	8.1	8.7	10.4	8.7	8.1
60°	6.4	6.4	7.5	6.9	6.4
62.5°	4.6	4.6	5.2	4.6	4.6
65°	3.5	3.5	3.5	3.5	3.5
67.5°	1.7	2.3	2.3	2.3	2.3
70°	1.7	1.2	1.2	1.2	1.7
72.5°	1.2	0.6	0.6	0.6	0.6
75°	0.0	0.0	0.6	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	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





— 0°-180° - - 45°-225° - - - - 90°-270°

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)