

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: P766385

Luminaire Tested: LD6D45BD010-EU6DR3040509027-6LBDP1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P766385
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-EU6DR3040509027-6LBDP1B
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3742.2 lumens
Efficiency: N/A
Efficacy: 96.7 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

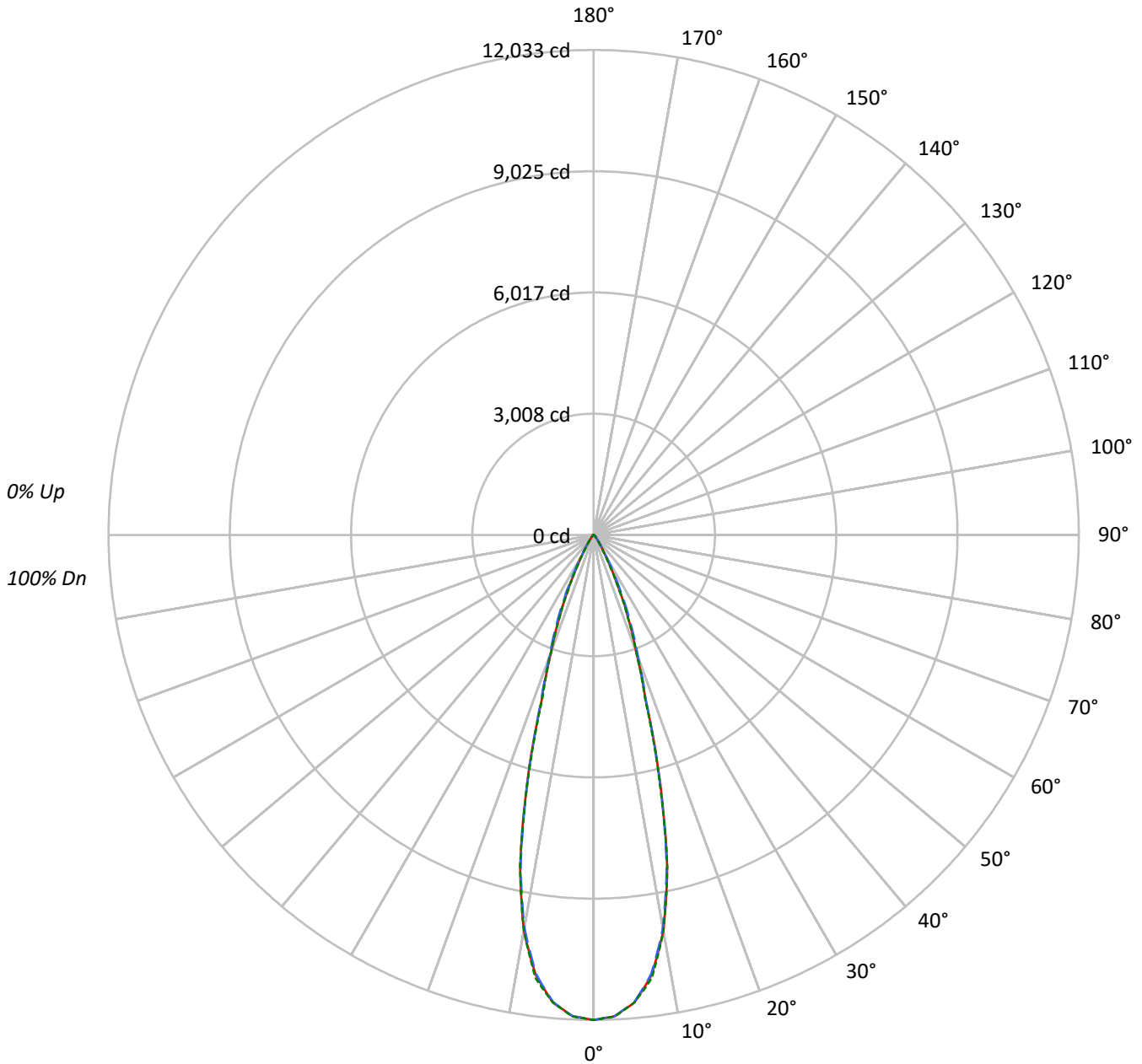
Input Watts (W): 38.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

TEST NUMBER: P766385
CATALOG NUMBER: LD6D45BD010-EU6DR3040509027-6LBDP1B

Luminous Intensity Polar Plot





TEST NUMBER: P766385

CATALOG NUMBER: LD6D45BD010-EU6DR3040509027-6LBDP1B

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	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96																			
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92																			
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89																			
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85																			
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82																			
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79																			
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77																			
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74																			
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72																			
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	921054	921054	921054
5°	894607	893562	894653
10°	774871	769400	774685
15°	505566	502848	500320
20°	251389	260821	251055
25°	126634	142799	124041
30°	50697	55240	44175
35°	23519	22520	18875
40°	10152	11271	9562
45°	7166	8887	7231
50°	2465	6478	2608
55°	1415	2682	1495
60°	995	1179	995
65°	634	634	634
70°	403	269	403
75°	0	177	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 8887 cd/sqm



TEST NUMBER: P766385

CATALOG NUMBER: LD6D45BD010-EU6DR3040509027-6LBDP1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1058.1	28.3
10°-20°	1704.1	45.5
20°-30°	736.4	19.7
30°-40°	167.8	4.5
40°-50°	57.6	1.5
50°-60°	14.1	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°	3498.6	93.5
0°-40°	3666.5	98.0
0°-60°	3738.2	99.9
0°-90°	3742.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3742.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12033	12033	12033	12033	12033	
5°	11643	11632	11630	11654	11644	1059
15°	6380	6303	6346	6325	6314	1708
25°	1499	1556	1691	1516	1469	718
35°	252	257	241	239	202	171
45°	66	82	82	82	67	47
55°	11	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	0



TEST NUMBER: P766385

CATALOG NUMBER: LD6D45BD010-EU6DR3040509027-6LBDP1B

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12033.1	12033.1	12033.1	12033.1	12033.1
2.5°	11953.3	11945.0	11949.8	11955.7	11958.0
5°	11643.1	11631.9	11629.5	11653.8	11643.7
7.5°	11017.5	11001.5	10977.3	11032.3	11083.7
10°	9969.5	9951.7	9899.1	9925.1	9967.1
12.5°	8422.2	8364.9	8363.7	8446.4	8435.2
15°	6379.9	6303.1	6345.6	6324.9	6313.7
17.5°	4290.3	4260.7	4317.4	4300.3	4226.5
20°	3086.2	3093.9	3202.0	3147.7	3082.1
22.5°	2252.1	2279.8	2408.0	2268.0	2216.6
25°	1499.4	1556.1	1690.8	1516.5	1468.7
27.5°	922.2	948.2	1084.7	910.4	884.4
30°	573.6	560.7	625.0	536.4	499.8
32.5°	376.3	359.8	380.5	341.5	311.9
35°	251.7	257.0	241.0	239.3	202.0
37.5°	157.1	180.8	159.5	170.1	130.0
40°	101.6	131.2	112.8	124.7	95.7
42.5°	83.3	101.0	92.8	98.7	85.1
45°	66.2	82.1	82.1	82.1	66.8
47.5°	36.6	54.9	70.3	56.1	39.0
50°	20.7	27.8	54.4	28.9	21.9
52.5°	14.2	16.0	37.2	16.5	14.8
55°	10.6	11.2	20.1	11.8	11.2
57.5°	8.3	8.9	10.6	8.9	8.3
60°	6.5	6.5	7.7	7.1	6.5
62.5°	4.7	4.7	5.3	4.7	4.7
65°	3.5	3.5	3.5	3.5	3.5
67.5°	1.8	2.4	2.4	2.4	2.4
70°	1.8	1.2	1.2	1.2	1.8
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)