

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: P766440

Luminaire Tested: LD6D45BD010-EU6DR3040509050-6LBDP1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P766440
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-EU6DR3040509050-6LBDP1MW
Description: 6 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4550.8 lumens
Efficiency: N/A
Efficacy: 117.6 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

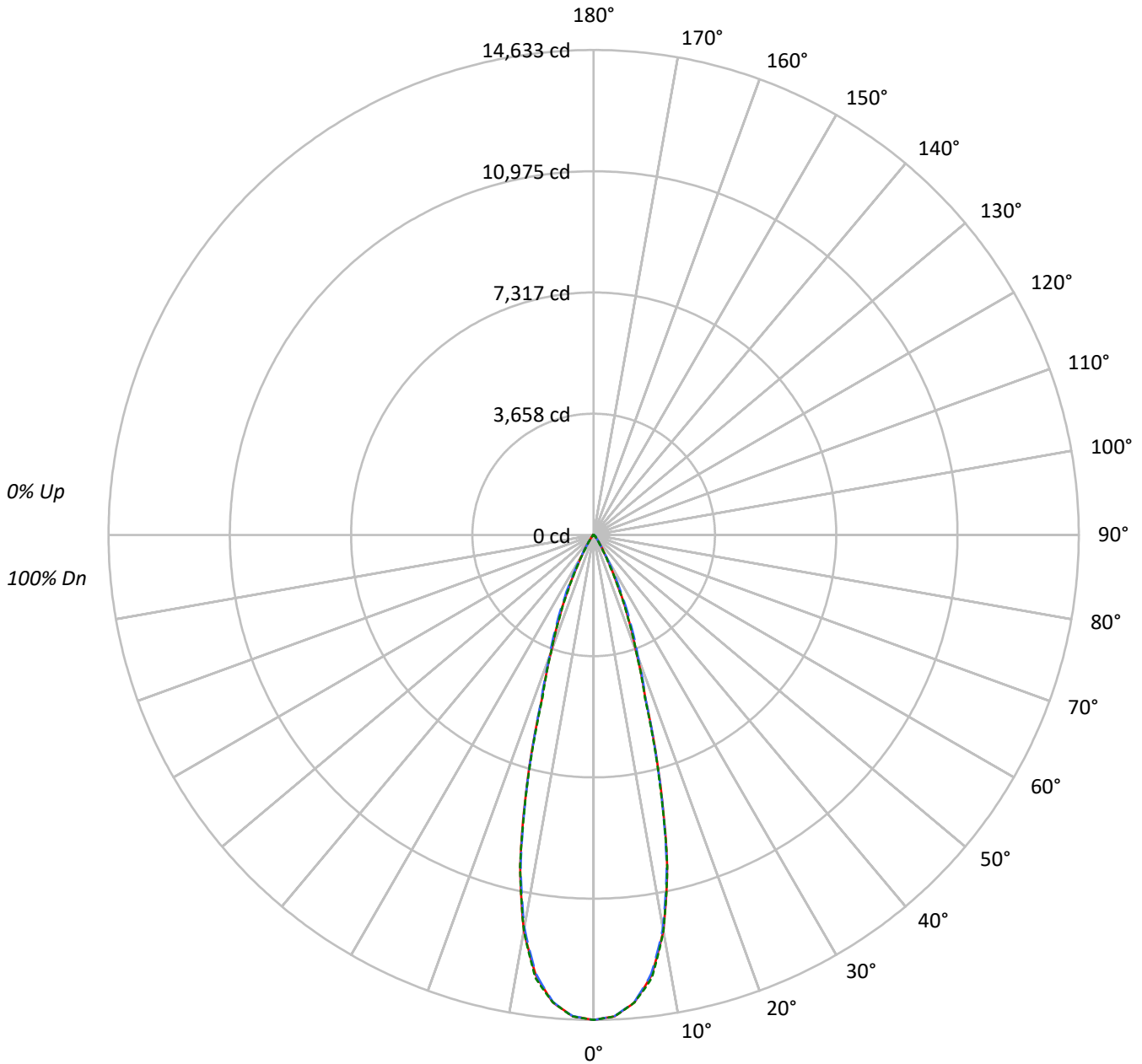


Downlight

TEST NUMBER: P766440

CATALOG NUMBER: LD6D45BD010-EU6DR3040509050-6LBDP1MW

Luminous Intensity Polar Plot





TEST NUMBER: P766440

CATALOG NUMBER: LD6D45BD010-EU6DR3040509050-6LBDP1MW

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20										
RC	80					70					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°	1120067	1120067	1120067
5°	1087918	1086642	1087972
10°	942297	935652	942079
15°	614803	611499	608424
20°	305712	317181	305304
25°	153998	173659	150839
30°	61657	67181	53720
35°	28603	27388	22959
40°	12350	13709	11631
45°	8714	10814	8790
50°	2989	7871	3168
55°	1721	3256	1828
60°	1209	1424	1209
65°	779	779	779
70°	492	313	492
75°	0	207	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 10814 cd/sqm



TEST NUMBER: P766440

CATALOG NUMBER: LD6D45BD010-EU6DR3040509050-6LBDP1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1286.8	28.3
10°-20°	2072.3	45.5
20°-30°	895.5	19.7
30°-40°	204.1	4.5
40°-50°	70.1	1.5
50°-60°	17.1	0.4
60°-70°	4.4	0.1
70°-80°	0.5	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°	4254.6	93.5
0°-40°	4458.7	98.0
0°-60°	4545.9	99.9
0°-90°	4550.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4550.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14633	14633	14633	14633	14633	
5°	14159	14145	14142	14172	14160	1288
15°	7758	7665	7717	7692	7678	2077
25°	1823	1892	2056	1844	1786	873
35°	306	312	293	291	246	208
45°	80	100	100	100	81	57
55°	13	14	24	14	14	13
65°	4	4	4	4	4	4
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P766440

CATALOG NUMBER: LD6D45BD010-EU6DR3040509050-6LBDP1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	14633.1	14633.1	14633.1	14633.1	14633.1
2.5°	14536.1	14526.1	14531.8	14539.0	14541.9
5°	14159.0	14145.3	14142.4	14171.9	14159.7
7.5°	13398.1	13378.7	13349.3	13416.1	13478.6
10°	12123.6	12102.1	12038.1	12069.8	12120.8
12.5°	10242.0	10172.4	10170.9	10271.5	10257.9
15°	7758.4	7665.0	7716.7	7691.6	7677.9
17.5°	5217.3	5181.4	5250.3	5229.5	5139.7
20°	3753.1	3762.5	3893.9	3827.8	3748.1
22.5°	2738.7	2772.5	2928.4	2758.1	2695.6
25°	1823.4	1892.4	2056.2	1844.2	1786.0
27.5°	1121.5	1153.1	1319.1	1107.1	1075.5
30°	697.6	681.8	760.1	652.3	607.8
32.5°	457.6	437.5	462.7	415.3	379.3
35°	306.1	312.5	293.1	291.0	245.7
37.5°	191.1	219.8	194.0	206.9	158.1
40°	123.6	159.5	137.2	151.6	116.4
42.5°	101.3	122.9	112.8	120.0	103.5
45°	80.5	99.9	99.9	99.9	81.2
47.5°	44.5	66.8	85.5	68.3	47.4
50°	25.1	33.8	66.1	35.2	26.6
52.5°	17.2	19.4	45.3	20.1	18.0
55°	12.9	13.7	24.4	14.4	13.7
57.5°	10.1	10.8	12.9	10.8	10.1
60°	7.9	7.9	9.3	8.6	7.9
62.5°	5.7	5.7	6.5	5.7	5.7
65°	4.3	4.3	4.3	4.3	4.3
67.5°	2.2	2.9	2.9	2.9	2.9
70°	2.2	1.4	1.4	1.4	2.2
72.5°	1.4	0.7	0.7	0.7	0.7
75°	0.0	0.0	0.7	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)