

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: P766424

Luminaire Tested: LD6D45BD010-EU6DR3040509040-6LBDP1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P766424
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-EU6DR3040509040-6LBDP1B
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4078.1 lumens
Efficiency: N/A
Efficacy: 105.4 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

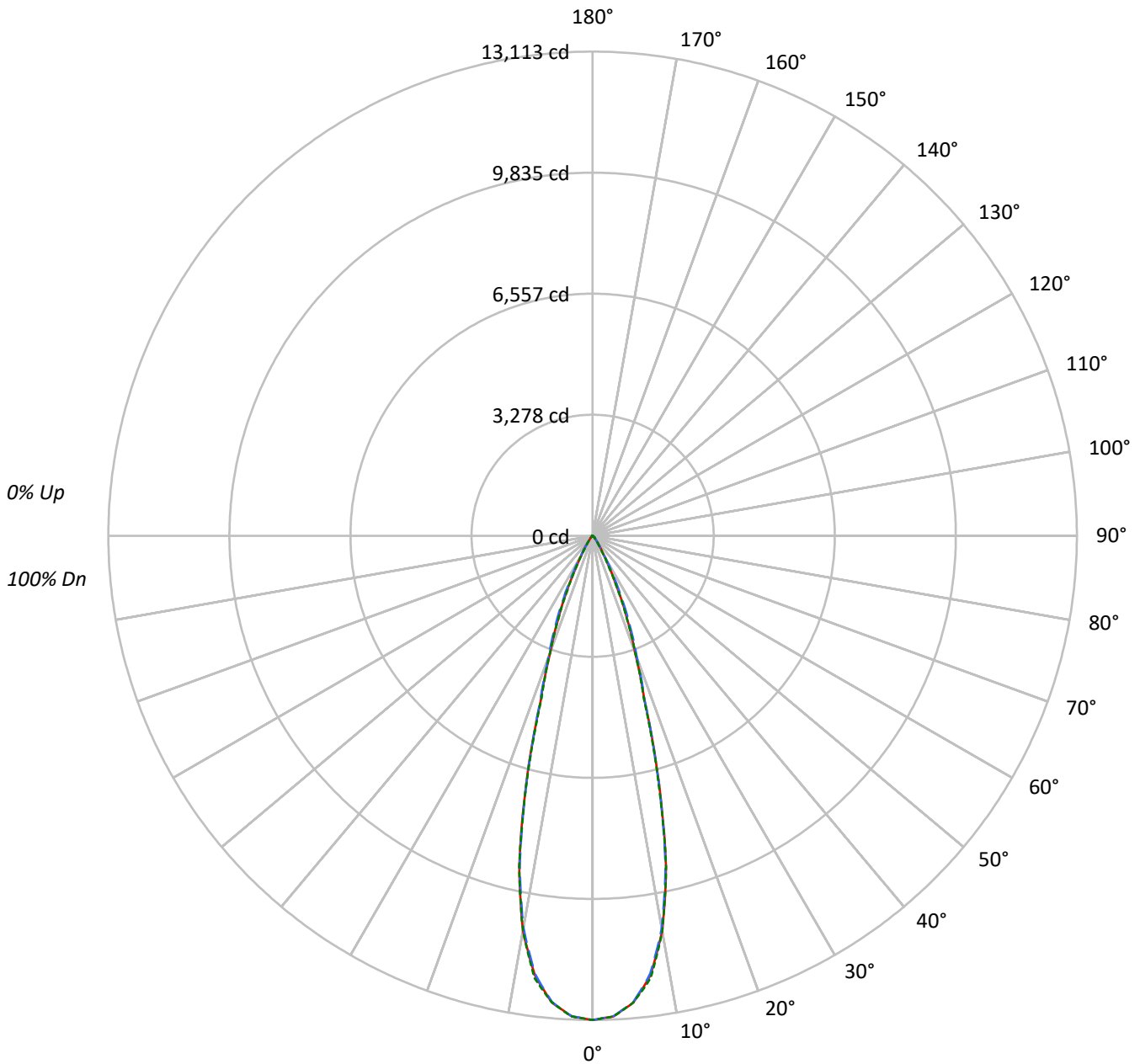


Downlight

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Luminous Intensity Polar Plot





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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°	1003706	1003706	1003706
5°	974892	973755	974946
10°	844403	838450	844209
15°	550933	547977	545219
20°	273952	284232	273586
25°	138002	155619	135172
30°	55249	60199	48143
35°	25631	24547	20576
40°	11061	12290	10422
45°	7805	9688	7870
50°	2679	7050	2834
55°	1548	2923	1628
60°	1087	1286	1087
65°	706	706	706
70°	425	291	425
75°	0	177	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 9688 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1153.1	28.3
10°-20°	1857.1	45.5
20°-30°	802.5	19.7
30°-40°	182.9	4.5
40°-50°	62.8	1.5
50°-60°	15.3	0.4
60°-70°	4.0	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°	3812.6	93.5
0°-40°	3995.5	98.0
0°-60°	4073.7	99.9
0°-90°	4078.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4078.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13113	13113	13113	13113	13113	
5°	12688	12676	12673	12700	12689	1154
15°	6952	6869	6915	6892	6880	1862
25°	1634	1696	1843	1653	1600	782
35°	274	280	263	261	220	186
45°	72	90	90	90	73	51
55°	12	12	22	13	12	11
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



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13112.9	13112.9	13112.9	13112.9	13112.9
2.5°	13026.0	13017.0	13022.2	13028.6	13031.2
5°	12688.0	12675.8	12673.2	12699.6	12688.7
7.5°	12006.2	11988.9	11962.5	12022.3	12078.4
10°	10864.1	10844.8	10787.5	10815.9	10861.6
12.5°	9178.0	9115.6	9114.3	9204.4	9192.2
15°	6952.4	6868.7	6915.1	6892.5	6880.3
17.5°	4675.3	4643.1	4704.9	4686.2	4605.8
20°	3363.2	3371.6	3489.4	3430.2	3358.7
22.5°	2454.2	2484.4	2624.1	2471.6	2415.5
25°	1634.0	1695.8	1842.6	1652.6	1600.5
27.5°	1005.0	1033.3	1182.0	992.1	963.8
30°	625.1	611.0	681.1	584.6	544.7
32.5°	410.1	392.1	414.6	372.1	339.9
35°	274.3	280.1	262.7	260.7	220.2
37.5°	171.3	197.0	173.8	185.4	141.6
40°	110.7	142.9	123.0	135.8	104.3
42.5°	90.8	110.1	101.1	107.5	92.7
45°	72.1	89.5	89.5	89.5	72.7
47.5°	39.9	59.9	76.6	61.2	42.5
50°	22.5	30.3	59.2	31.5	23.8
52.5°	15.5	17.4	40.6	18.0	16.1
55°	11.6	12.2	21.9	12.9	12.2
57.5°	9.0	9.7	11.6	9.7	9.0
60°	7.1	7.1	8.4	7.7	7.1
62.5°	5.2	5.2	5.8	5.2	5.2
65°	3.9	3.9	3.9	3.9	3.9
67.5°	1.9	2.6	2.6	2.6	2.6
70°	1.9	1.3	1.3	1.3	1.9
72.5°	1.3	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



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Scaled Data Report





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

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