

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: P766437

Luminaire Tested: LD6D45BD010-EU6DR3040509050-6LBDP1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P766437  
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-EU6DR3040509050-6LBDP1B  
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4107.2 lumens  
Efficiency: N/A  
Efficacy: 106.1 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

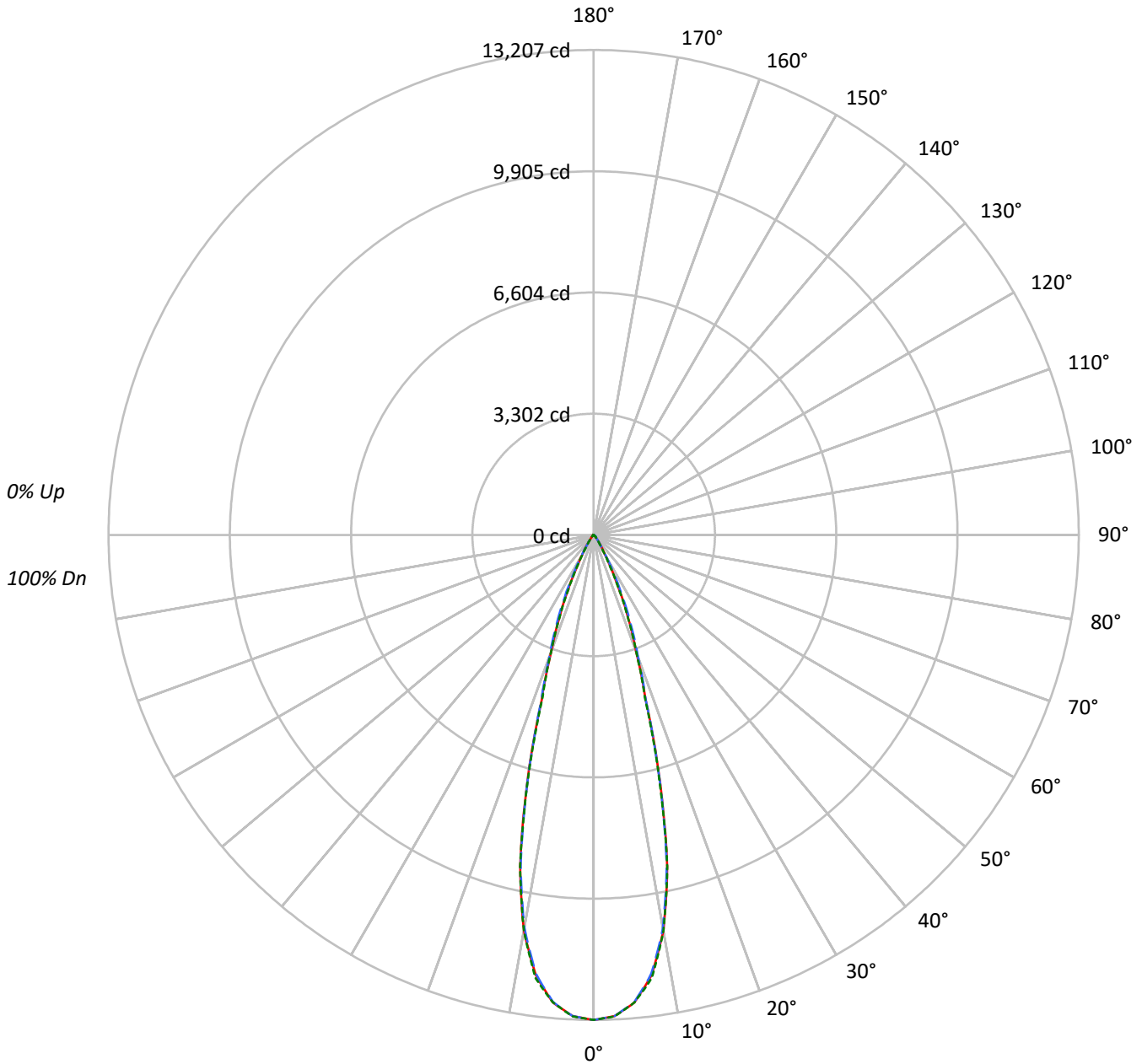
Input Watts (W): 38.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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°	1010878	1010878	1010878
5°	981861	980717	981907
10°	850435	844442	850241
15°	554871	551892	549110
20°	275907	286260	275540
25°	138981	156726	136135
30°	55647	60632	48479
35°	25809	24715	20725
40°	11141	12370	10492
45°	7859	9753	7935
50°	2703	7109	2858
55°	1561	2936	1641
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: 9753 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1161.3	28.3
10°-20°	1870.3	45.5
20°-30°	808.2	19.7
30°-40°	184.2	4.5
40°-50°	63.2	1.5
50°-60°	15.4	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°	3839.9	93.5
0°-40°	4024.1	98.0
0°-60°	4102.8	99.9
0°-90°	4107.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4107.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	13207	13207	13207	13207	13207	
5°	12779	12766	12764	12790	12779	1162
15°	7002	6918	6964	6942	6929	1875
25°	1646	1708	1856	1664	1612	788
35°	276	282	264	263	222	187
45°	73	90	90	90	73	52
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°	13206.6	13206.6	13206.6	13206.6	13206.6
2.5°	13119.1	13110.0	13115.2	13121.7	13124.3
5°	12778.7	12766.3	12763.8	12790.3	12779.3
7.5°	12092.0	12074.5	12047.9	12108.2	12164.6
10°	10941.7	10922.3	10864.6	10893.1	10939.2
12.5°	9243.6	9180.7	9179.4	9270.2	9257.9
15°	7002.1	6917.8	6964.5	6941.8	6929.4
17.5°	4708.7	4676.3	4738.5	4719.7	4638.7
20°	3387.2	3395.7	3514.3	3454.7	3382.7
22.5°	2471.7	2502.2	2642.9	2489.2	2432.8
25°	1645.6	1707.9	1855.7	1664.4	1611.9
27.5°	1012.2	1040.7	1190.5	999.2	970.7
30°	629.6	615.3	686.0	588.7	548.5
32.5°	413.0	394.9	417.6	374.8	342.4
35°	276.2	282.1	264.5	262.6	221.8
37.5°	172.5	198.4	175.1	186.7	142.6
40°	111.5	143.9	123.8	136.8	105.0
42.5°	91.4	110.9	101.8	108.3	93.4
45°	72.6	90.1	90.1	90.1	73.3
47.5°	40.2	60.3	77.2	61.6	42.8
50°	22.7	30.5	59.7	31.8	24.0
52.5°	15.6	17.5	40.8	18.2	16.2
55°	11.7	12.3	22.0	13.0	12.3
57.5°	9.1	9.7	11.7	9.7	9.1
60°	7.1	7.1	8.4	7.8	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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(END OF REPORT)