

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: P761925

Luminaire Tested: LD6D20D010-EU6DR1515309024-6LBCSSQMW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P761925  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-21)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD6D20D010-EU6DR1515309024-6LBCSSQMW  
Description: 6 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1591.5 lumens  
Efficiency: N/A  
Efficacy: 68.9 lumens/watt  
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.23  
Luminous Opening: Vertical Cylinder (Dia: 0.35' x H: 0.35')  
CIE Type: Direct

Input Watts (W): 23.1  
Input Voltage (V): NR  
Input Current (Ain): 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



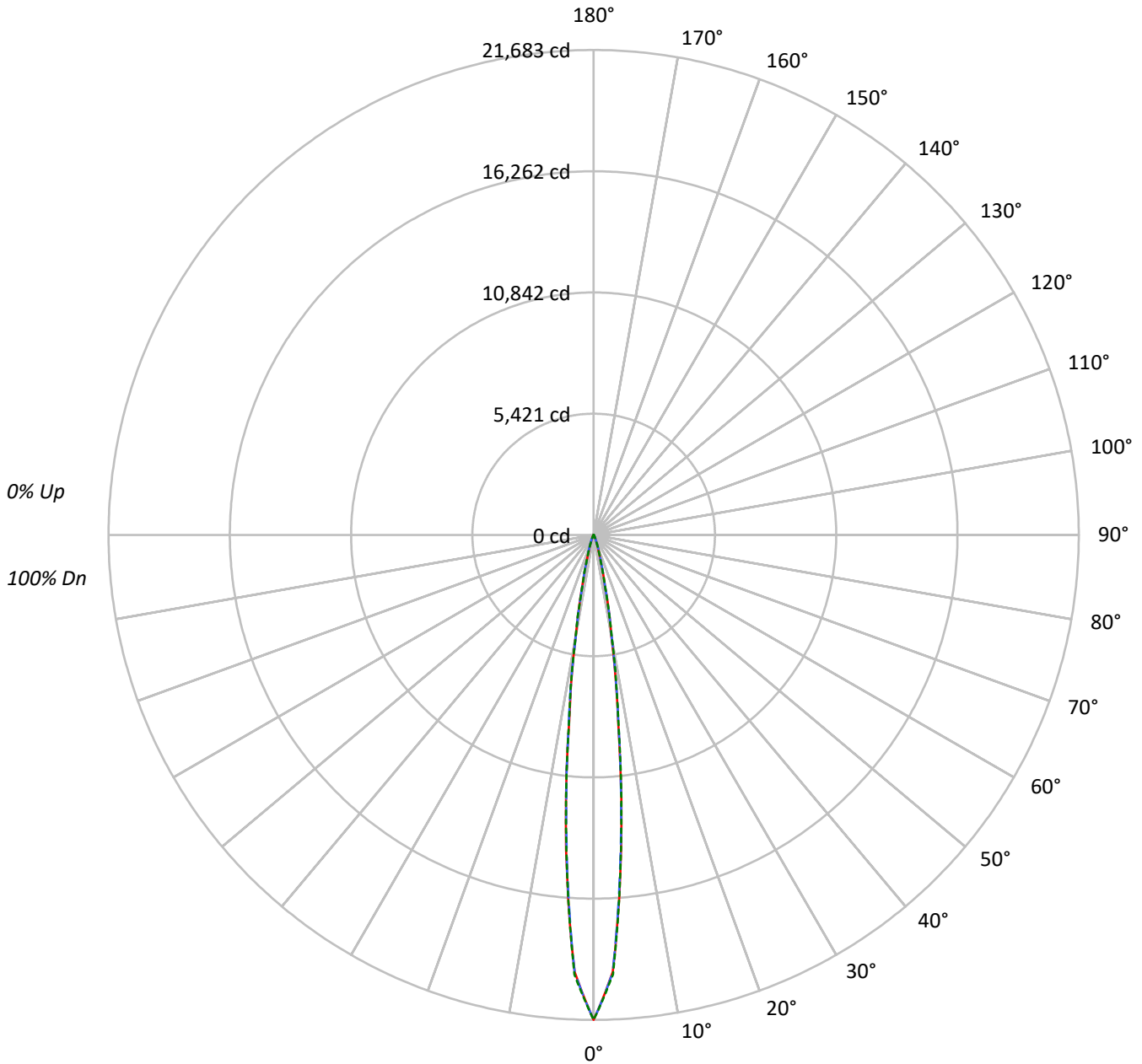
Downlight



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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					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	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98								
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96								
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94								
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93								
5	106	101	98	95	104	100	97	95	98	96	94	97	95	93	96	94	92	92								
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90								
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89								
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88								
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	88	87								
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86								

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2439815	2439815	2439815
5°	1433750	1415193	1426382
10°	427909	430904	437501
15°	106434	108510	105166
20°	31845	36878	32525
25°	11225	14303	11374
30°	4126	5429	4193
35°	2070	2331	1997
40°	1307	1434	1307
45°	966	1029	966
50°	765	765	765
55°	640	640	640
60°	513	513	513
65°	393	393	393
70°	336	336	336
75°	212	212	280
80°	142	142	142
85°	75	75	75

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 1029 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1032.2	64.9
10°-20°	424.6	26.7
20°-30°	84.3	5.3
30°-40°	21.0	1.3
40°-50°	11.1	0.7
50°-60°	8.2	0.5
60°-70°	5.8	0.4
70°-80°	3.3	0.2
80°-90°	1.0	0.1
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°	1541.1	96.8
0°-40°	1562.1	98.2
0°-60°	1581.4	99.4
0°-90°	1591.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1591.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	21683	21683	21683	21683	21683	
5°	14108	13963	13925	14021	14035	1030
15°	1225	1248	1249	1227	1211	420
25°	144	163	184	162	146	76
35°	28	30	32	30	28	19
45°	14	14	15	14	14	11
55°	9	9	9	9	9	8
65°	6	6	6	6	6	6
75°	3	3	3	3	4	3
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	21683.4	21683.4	21683.4	21683.4	21683.4
2.5°	19559.3	19575.9	19582.3	19601.6	19673.2
5°	14107.7	13962.7	13925.1	14021.4	14035.2
7.5°	8356.9	8386.2	8493.6	8517.5	8431.2
10°	4586.0	4623.6	4618.1	4651.2	4688.8
12.5°	2345.3	2315.9	2306.8	2344.4	2292.1
15°	1225.4	1248.4	1249.3	1227.3	1210.8
17.5°	659.1	685.7	729.8	694.0	638.9
20°	389.2	413.1	450.7	421.3	397.5
22.5°	240.5	259.8	286.4	263.4	244.2
25°	144.1	163.4	183.6	162.5	146.0
27.5°	85.4	101.9	114.7	101.0	84.4
30°	55.1	64.3	72.5	63.3	56.0
32.5°	38.6	42.2	45.9	42.2	38.6
35°	28.5	30.3	32.1	30.3	27.5
37.5°	22.0	23.9	24.8	22.9	21.1
40°	18.4	19.3	20.2	19.3	18.4
42.5°	15.6	16.5	16.5	16.5	15.6
45°	13.8	13.8	14.7	13.8	13.8
47.5°	11.9	11.9	12.9	11.9	11.9
50°	11.0	11.0	11.0	11.0	11.0
52.5°	10.1	10.1	10.1	10.1	10.1
55°	9.2	9.2	9.2	9.2	9.2
57.5°	8.3	8.3	8.3	8.3	8.3
60°	7.3	7.3	7.3	7.3	7.3
62.5°	6.4	6.4	6.4	6.4	6.4
65°	5.5	5.5	5.5	5.5	5.5
67.5°	5.5	5.5	5.5	5.5	5.5
70°	4.6	4.6	4.6	4.6	4.6
72.5°	3.7	3.7	3.7	3.7	3.7
75°	2.8	2.8	2.8	2.8	3.7
77.5°	2.8	2.8	2.8	2.8	2.8
80°	1.8	1.8	1.8	1.8	1.8
82.5°	1.8	1.8	1.8	1.8	1.8
85°	0.9	0.9	0.9	0.9	0.9
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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