

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: P763820

Luminaire Tested: LD6D30D010-EU6DR1515309027-6LBSQW1MW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P763820  
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: LD6D30D010-EU6DR1515309027-6LBSQW1MW  
Description: 6 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2831.5 lumens  
Efficiency: N/A  
Efficacy: 97.6 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): 29  
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



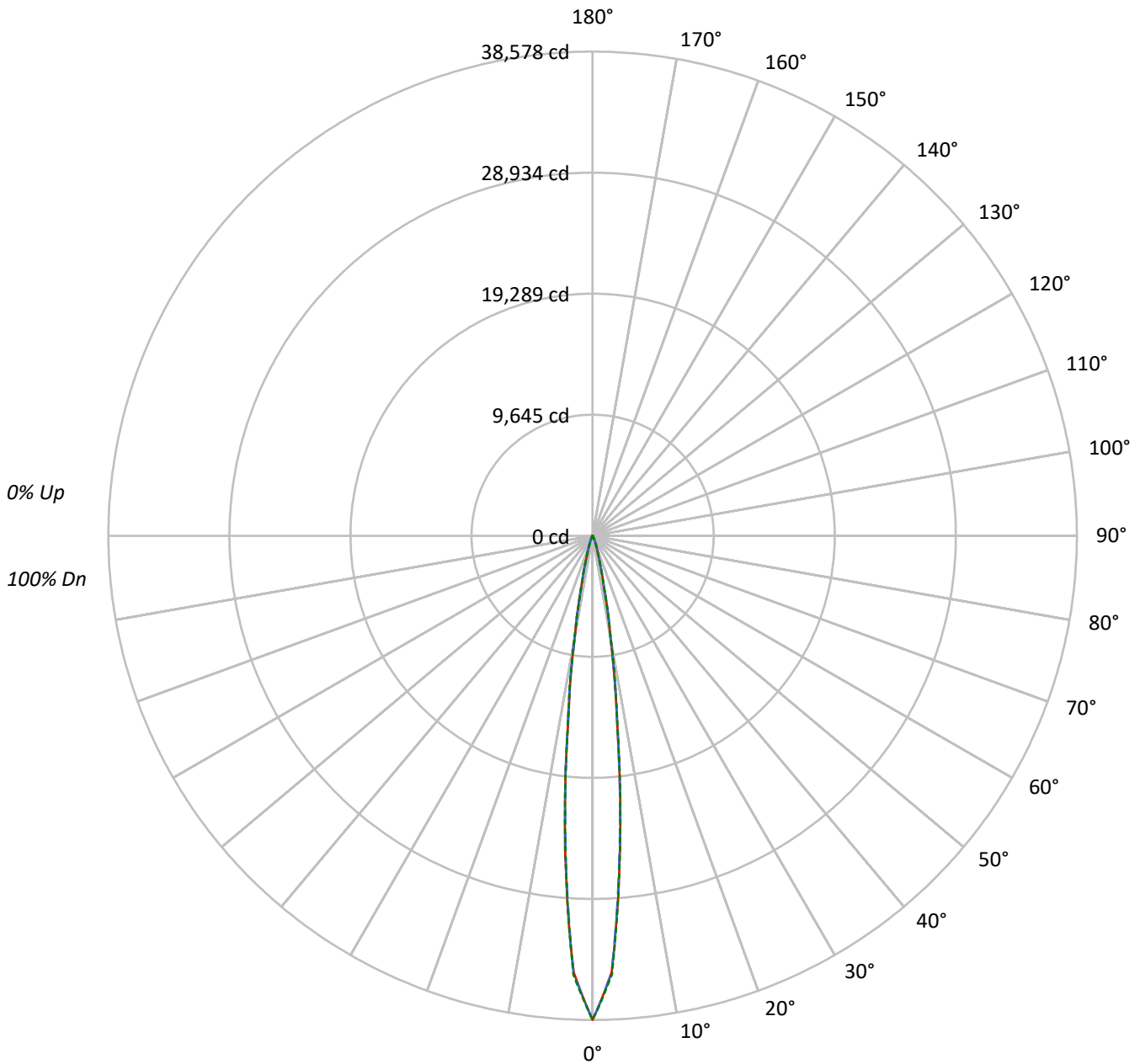
Downlight



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

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

	0°	45°	90°
0°	4340828	4340828	4340828
5°	2550875	2517846	2537765
10°	761315	766652	778381
15°	189374	193057	187098
20°	56662	65614	57865
25°	19974	25442	20231
30°	7338	9660	7458
35°	3675	4154	3558
40°	2322	2549	2322
45°	1715	1827	1715
50°	1363	1363	1363
55°	1135	1135	1135
60°	920	920	920
65°	699	699	699
70°	600	600	600
75°	370	370	491
80°	260	260	260
85°	133	133	133

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 1827 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1836.4	64.9
10°-20°	755.4	26.7
20°-30°	150.0	5.3
30°-40°	37.4	1.3
40°-50°	19.7	0.7
50°-60°	14.6	0.5
60°-70°	10.3	0.4
70°-80°	5.9	0.2
80°-90°	1.8	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°	2741.8	96.8
0°-40°	2779.2	98.2
0°-60°	2813.5	99.4
0°-90°	2831.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2831.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	38578	38578	38578	38578	38578	
5°	25100	24842	24775	24946	24971	1833
15°	2180	2221	2223	2184	2154	748
25°	256	291	327	289	260	135
35°	51	54	57	54	49	34
45°	24	24	26	24	24	19
55°	16	16	16	16	16	15
65°	10	10	10	10	10	10
75°	5	5	5	5	6	6
85°	2	2	2	2	2	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	38578.3	38578.3	38578.3	38578.3	38578.3
2.5°	34799.1	34828.5	34840.0	34874.3	35001.7
5°	25099.9	24841.8	24774.9	24946.4	24970.9
7.5°	14868.2	14920.5	15111.5	15154.0	15000.5
10°	8159.2	8226.2	8216.4	8275.2	8342.1
12.5°	4172.7	4120.4	4104.1	4171.1	4078.0
15°	2180.3	2221.1	2222.7	2183.5	2154.1
17.5°	1172.6	1220.0	1298.4	1234.7	1136.7
20°	692.5	734.9	801.9	749.6	707.2
22.5°	427.9	462.2	509.5	468.7	434.4
25°	256.4	290.7	326.6	289.1	259.7
27.5°	151.9	181.3	204.1	179.6	150.2
30°	98.0	114.3	129.0	112.7	99.6
32.5°	68.6	75.1	81.7	75.1	68.6
35°	50.6	53.9	57.2	53.9	49.0
37.5°	39.2	42.5	44.1	40.8	37.6
40°	32.7	34.3	35.9	34.3	32.7
42.5°	27.8	29.4	29.4	29.4	27.8
45°	24.5	24.5	26.1	24.5	24.5
47.5°	21.2	21.2	22.9	21.2	21.2
50°	19.6	19.6	19.6	19.6	19.6
52.5°	18.0	18.0	18.0	18.0	18.0
55°	16.3	16.3	16.3	16.3	16.3
57.5°	14.7	14.7	14.7	14.7	14.7
60°	13.1	13.1	13.1	13.1	13.1
62.5°	11.4	11.4	11.4	11.4	11.4
65°	9.8	9.8	9.8	9.8	9.8
67.5°	9.8	9.8	9.8	9.8	9.8
70°	8.2	8.2	8.2	8.2	8.2
72.5°	6.5	6.5	6.5	6.5	6.5
75°	4.9	4.9	4.9	4.9	6.5
77.5°	4.9	4.9	4.9	4.9	4.9
80°	3.3	3.3	3.3	3.3	3.3
82.5°	3.3	3.3	3.3	3.3	3.3
85°	1.6	1.6	1.6	1.6	1.6
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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