

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: P791218

Luminaire Tested: LER6D30D010-EC6DR1515309040-6LBDP1MW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P791218  
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: LER6D30D010-EC6DR1515309040-6LBDDP1MW  
Description: 6 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3382.2 lumens  
Efficiency: N/A  
Efficacy: 116.6 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

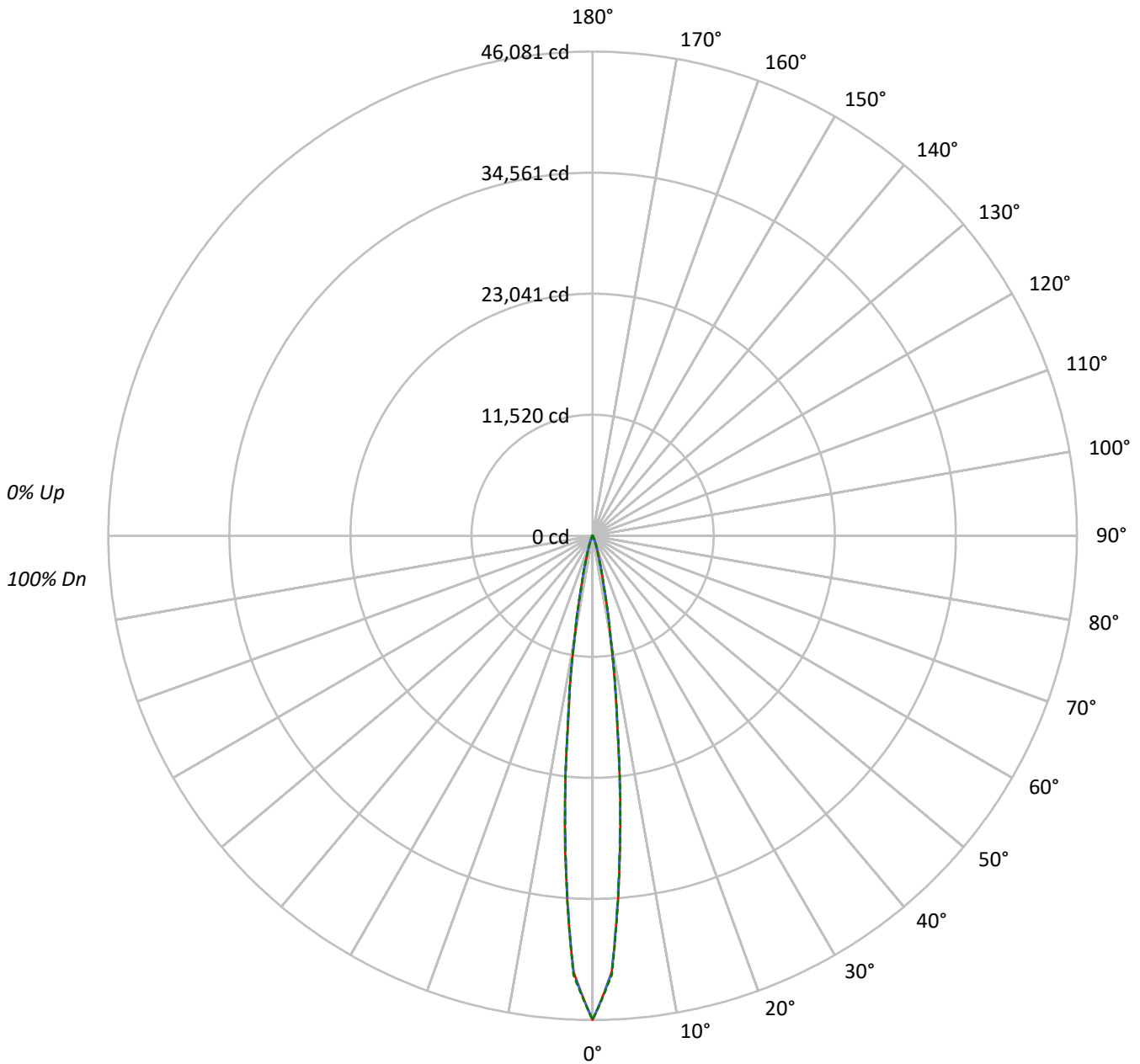
Input Watts (W): 29  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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	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	87	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°	5185021	5185021	5185021
5°	3046956	3007504	3031295
10°	909376	915749	929763
15°	226201	230605	223491
20°	67676	78370	69116
25°	23861	30397	24165
30°	8761	11539	8911
35°	4393	4960	4248
40°	2770	3047	2770
45°	2051	2184	2051
50°	1627	1627	1627
55°	1357	1357	1357
60°	1095	1095	1095
65°	835	835	835
70°	717	717	717
75°	446	446	590
80°	307	307	307
85°	166	166	166

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 2184 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2193.5	64.9
10°-20°	902.3	26.7
20°-30°	179.2	5.3
30°-40°	44.7	1.3
40°-50°	23.5	0.7
50°-60°	17.5	0.5
60°-70°	12.3	0.4
70°-80°	7.0	0.2
80°-90°	2.1	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°	3275.0	96.8
0°-40°	3319.7	98.2
0°-60°	3360.7	99.4
0°-90°	3382.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3382.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	46081	46081	46081	46081	46081	
5°	29981	29673	29593	29798	29827	2189
15°	2604	2653	2655	2608	2573	893
25°	306	347	390	345	310	161
35°	60	64	68	64	58	41
45°	29	29	31	29	29	23
55°	20	20	20	20	20	17
65°	12	12	12	12	12	12
75°	6	6	6	6	8	7
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°	46080.9	46080.9	46080.9	46080.9	46080.9
2.5°	41566.8	41601.9	41615.6	41656.5	41808.7
5°	29981.2	29673.0	29593.0	29797.9	29827.1
7.5°	17759.7	17822.1	18050.4	18101.1	17917.7
10°	9746.0	9826.0	9814.3	9884.5	9964.5
12.5°	4984.2	4921.8	4902.3	4982.2	4871.0
15°	2604.3	2653.0	2655.0	2608.2	2573.1
17.5°	1400.6	1457.2	1550.9	1474.8	1357.7
20°	827.1	877.8	957.8	895.4	844.7
22.5°	511.1	552.1	608.6	559.9	518.9
25°	306.3	347.2	390.2	345.3	310.2
27.5°	181.4	216.5	243.8	214.6	179.5
30°	117.0	136.6	154.1	134.6	119.0
32.5°	81.9	89.7	97.5	89.7	81.9
35°	60.5	64.4	68.3	64.4	58.5
37.5°	46.8	50.7	52.7	48.8	44.9
40°	39.0	41.0	42.9	41.0	39.0
42.5°	33.2	35.1	35.1	35.1	33.2
45°	29.3	29.3	31.2	29.3	29.3
47.5°	25.4	25.4	27.3	25.4	25.4
50°	23.4	23.4	23.4	23.4	23.4
52.5°	21.5	21.5	21.5	21.5	21.5
55°	19.5	19.5	19.5	19.5	19.5
57.5°	17.6	17.6	17.6	17.6	17.6
60°	15.6	15.6	15.6	15.6	15.6
62.5°	13.7	13.7	13.7	13.7	13.7
65°	11.7	11.7	11.7	11.7	11.7
67.5°	11.7	11.7	11.7	11.7	11.7
70°	9.8	9.8	9.8	9.8	9.8
72.5°	7.8	7.8	7.8	7.8	7.8
75°	5.9	5.9	5.9	5.9	7.8
77.5°	5.9	5.9	5.9	5.9	5.9
80°	3.9	3.9	3.9	3.9	3.9
82.5°	3.9	3.9	3.9	3.9	3.9
85°	2.0	2.0	2.0	2.0	2.0
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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