

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: P757916

Luminaire Tested: LD6D05D010-EU6DR150210IC9027-6LBDP1H

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P757916  
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: LD6D05D010-EU6DR150210IC9027-6LBDP1H  
Description: 6 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 646.3 lumens  
Efficiency: N/A  
Efficacy: 86.2 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): 7.5  
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



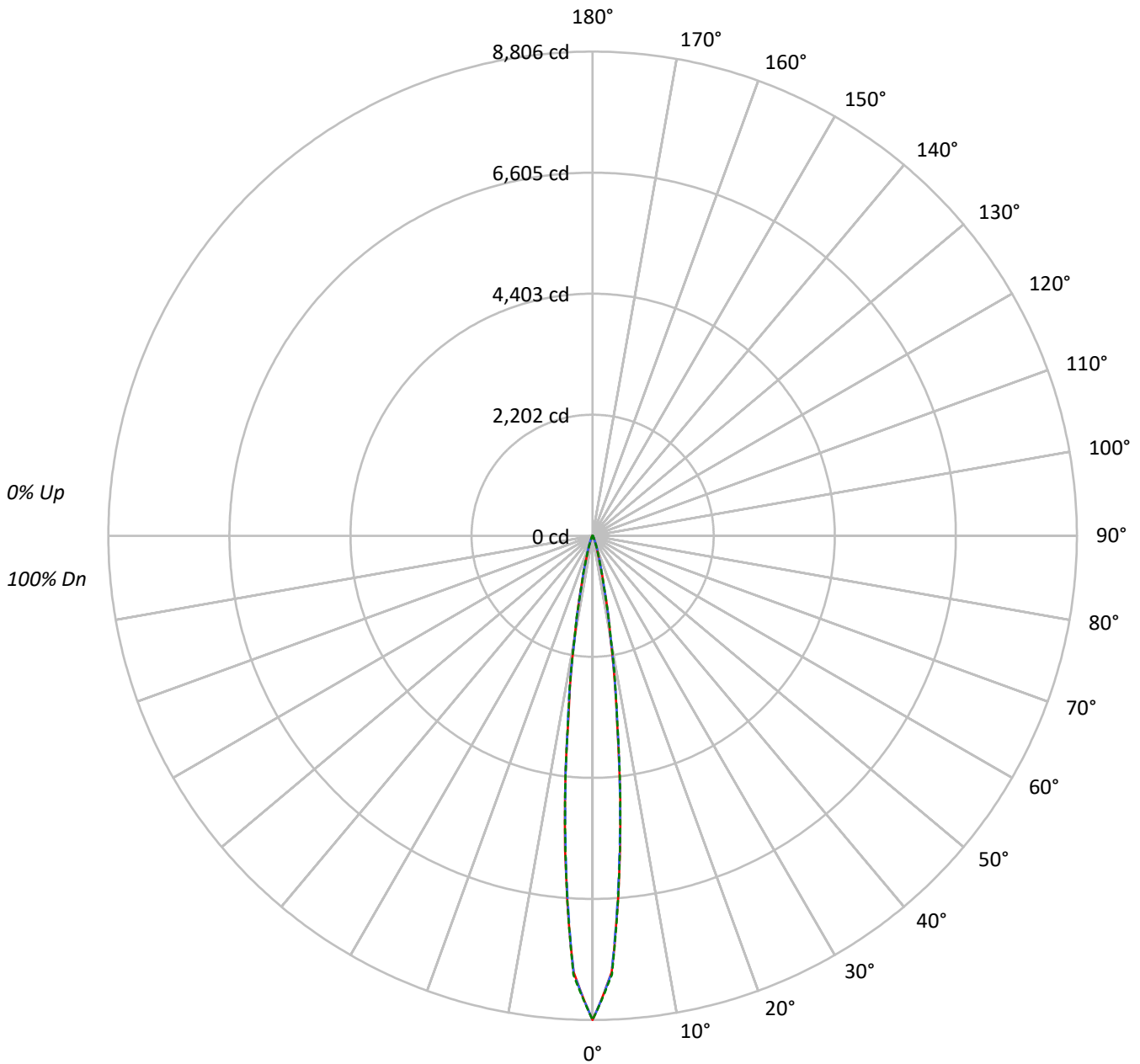
Downlight



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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	99	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°	990896	990896	990896
5°	582293	574752	579305
10°	173785	175008	177686
15°	43229	44071	42708
20°	12936	14974	13206
25°	4557	5811	4620
30°	1677	2209	1700
35°	842	944	813
40°	533	582	533
45°	392	420	392
50°	313	313	313
55°	258	258	258
60°	211	211	211
65°	157	157	157
70°	139	139	139
75°	83	83	113
80°	55	55	55
85°	33	33	33

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 420 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	419.2	64.9
10°-20°	172.4	26.7
20°-30°	34.3	5.3
30°-40°	8.5	1.3
40°-50°	4.5	0.7
50°-60°	3.3	0.5
60°-70°	2.3	0.4
70°-80°	1.3	0.2
80°-90°	0.4	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°	625.9	96.8
0°-40°	634.4	98.2
0°-60°	642.3	99.4
0°-90°	646.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	646.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8806	8806	8806	8806	8806	
5°	5730	5671	5655	5695	5700	418
15°	498	507	507	498	492	171
25°	58	66	75	66	59	31
35°	12	12	13	12	11	8
45°	6	6	6	6	6	4
55°	4	4	4	4	4	3
65°	2	2	2	2	2	2
75°	1	1	1	1	2	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	8806.4	8806.4	8806.4	8806.4	8806.4
2.5°	7943.7	7950.4	7953.0	7960.9	7989.9
5°	5729.6	5670.7	5655.4	5694.6	5700.2
7.5°	3394.0	3405.9	3449.6	3459.3	3424.2
10°	1862.5	1877.8	1875.6	1889.0	1904.3
12.5°	952.5	940.6	936.9	952.1	930.9
15°	497.7	507.0	507.4	498.4	491.7
17.5°	267.7	278.5	296.4	281.8	259.5
20°	158.1	167.8	183.0	171.1	161.4
22.5°	97.7	105.5	116.3	107.0	99.2
25°	58.5	66.4	74.6	66.0	59.3
27.5°	34.7	41.4	46.6	41.0	34.3
30°	22.4	26.1	29.5	25.7	22.7
32.5°	15.7	17.1	18.6	17.1	15.7
35°	11.6	12.3	13.0	12.3	11.2
37.5°	8.9	9.7	10.1	9.3	8.6
40°	7.5	7.8	8.2	7.8	7.5
42.5°	6.3	6.7	6.7	6.7	6.3
45°	5.6	5.6	6.0	5.6	5.6
47.5°	4.8	4.8	5.2	4.8	4.8
50°	4.5	4.5	4.5	4.5	4.5
52.5°	4.1	4.1	4.1	4.1	4.1
55°	3.7	3.7	3.7	3.7	3.7
57.5°	3.4	3.4	3.4	3.4	3.4
60°	3.0	3.0	3.0	3.0	3.0
62.5°	2.6	2.6	2.6	2.6	2.6
65°	2.2	2.2	2.2	2.2	2.2
67.5°	2.2	2.2	2.2	2.2	2.2
70°	1.9	1.9	1.9	1.9	1.9
72.5°	1.5	1.5	1.5	1.5	1.5
75°	1.1	1.1	1.1	1.1	1.5
77.5°	1.1	1.1	1.1	1.1	1.1
80°	0.7	0.7	0.7	0.7	0.7
82.5°	0.7	0.7	0.7	0.7	0.7
85°	0.4	0.4	0.4	0.4	0.4
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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