

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: P787591

Luminaire Tested: LER6D05D010-EC6DR150210IC9050-6LBDP1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P787591  
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: LER6D05D010-EC6DR150210IC9050-6LBDP1B  
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 668.7 lumens  
Efficiency: N/A  
Efficacy: 89.2 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

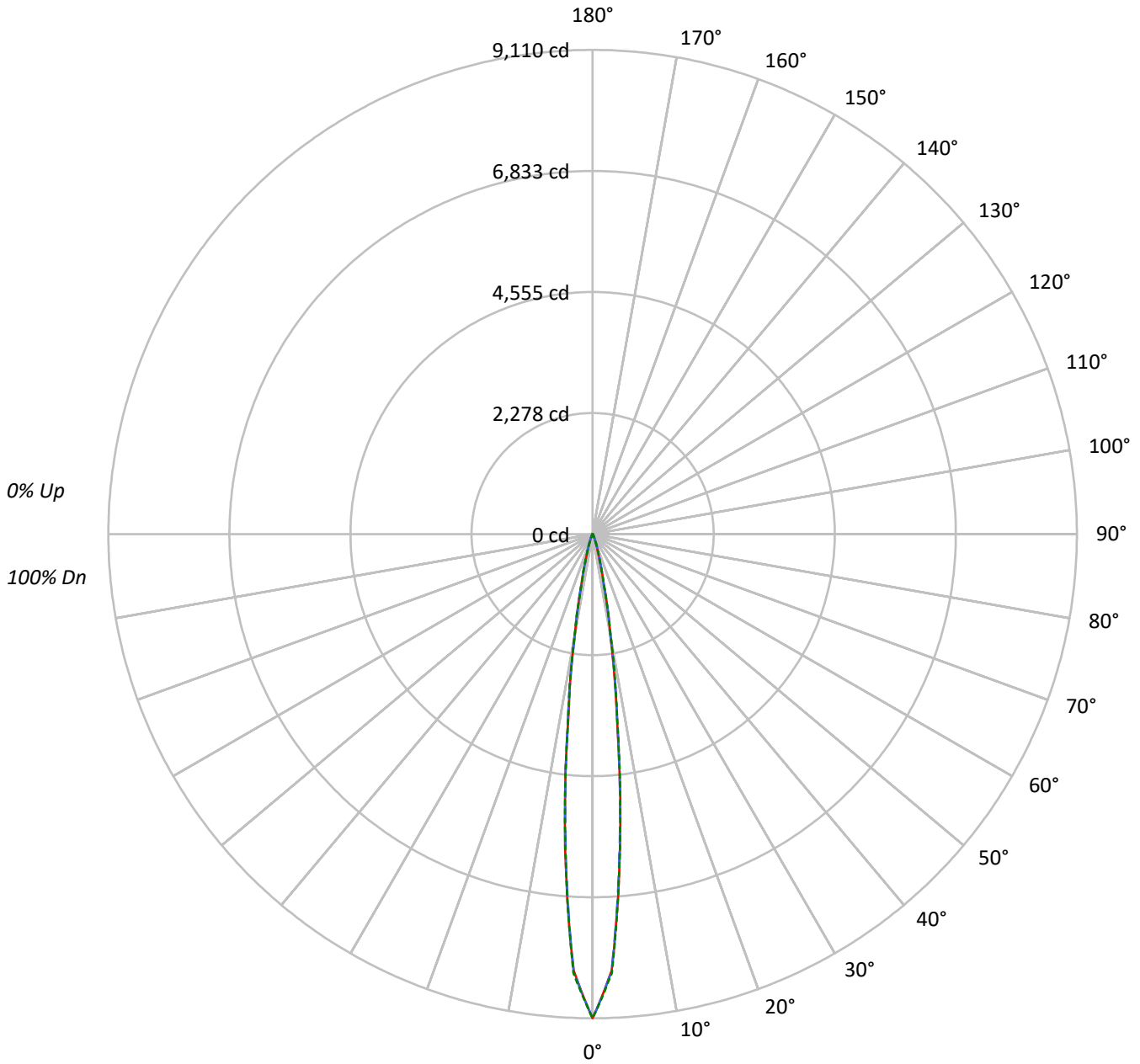
Input Watts (W): 7.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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			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°	1025068	1025068	1025068
5°	602375	594580	599285
10°	179785	181045	183816
15°	44723	45591	44184
20°	13378	15497	13664
25°	4713	6006	4775
30°	1730	2284	1760
35°	871	980	842
40°	547	604	547
45°	406	434	406
50°	320	320	320
55°	271	271	271
60°	218	218	218
65°	164	164	164
70°	139	139	139
75°	91	91	113
80°	63	63	63
85°	33	33	33

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 434 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	433.7	64.9
10°-20°	178.4	26.7
20°-30°	35.4	5.3
30°-40°	8.8	1.3
40°-50°	4.6	0.7
50°-60°	3.5	0.5
60°-70°	2.4	0.4
70°-80°	1.4	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°	647.5	96.8
0°-40°	656.3	98.2
0°-60°	664.4	99.4
0°-90°	668.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	668.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9110	9110	9110	9110	9110	
5°	5927	5866	5850	5891	5897	433
15°	515	524	525	516	509	177
25°	60	69	77	68	61	32
35°	12	13	14	13	12	8
45°	6	6	6	6	6	5
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°	9110.1	9110.1	9110.1	9110.1	9110.1
2.5°	8217.7	8224.6	8227.3	8235.4	8265.5
5°	5927.2	5866.3	5850.5	5891.0	5896.8
7.5°	3511.1	3523.4	3568.5	3578.6	3542.3
10°	1926.8	1942.6	1940.3	1954.1	1970.0
12.5°	985.4	973.0	969.2	985.0	963.0
15°	514.9	524.5	524.9	515.6	508.7
17.5°	276.9	288.1	306.6	291.6	268.4
20°	163.5	173.5	189.4	177.0	167.0
22.5°	101.0	109.1	120.3	110.7	102.6
25°	60.5	68.6	77.1	68.3	61.3
27.5°	35.9	42.8	48.2	42.4	35.5
30°	23.1	27.0	30.5	26.6	23.5
32.5°	16.2	17.7	19.3	17.7	16.2
35°	12.0	12.7	13.5	12.7	11.6
37.5°	9.3	10.0	10.4	9.6	8.9
40°	7.7	8.1	8.5	8.1	7.7
42.5°	6.6	6.9	6.9	6.9	6.6
45°	5.8	5.8	6.2	5.8	5.8
47.5°	5.0	5.0	5.4	5.0	5.0
50°	4.6	4.6	4.6	4.6	4.6
52.5°	4.2	4.2	4.2	4.2	4.2
55°	3.9	3.9	3.9	3.9	3.9
57.5°	3.5	3.5	3.5	3.5	3.5
60°	3.1	3.1	3.1	3.1	3.1
62.5°	2.7	2.7	2.7	2.7	2.7
65°	2.3	2.3	2.3	2.3	2.3
67.5°	2.3	2.3	2.3	2.3	2.3
70°	1.9	1.9	1.9	1.9	1.9
72.5°	1.5	1.5	1.5	1.5	1.5
75°	1.2	1.2	1.2	1.2	1.5
77.5°	1.2	1.2	1.2	1.2	1.2
80°	0.8	0.8	0.8	0.8	0.8
82.5°	0.8	0.8	0.8	0.8	0.8
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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