

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: P787587

Luminaire Tested: LER6D05D010-EC6DR150210IC9040-6LBS1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P787587  
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-EC6DR150210IC9040-6LBS1B  
Description: 6 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 715.3 lumens  
Efficiency: N/A  
Efficacy: 95.4 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

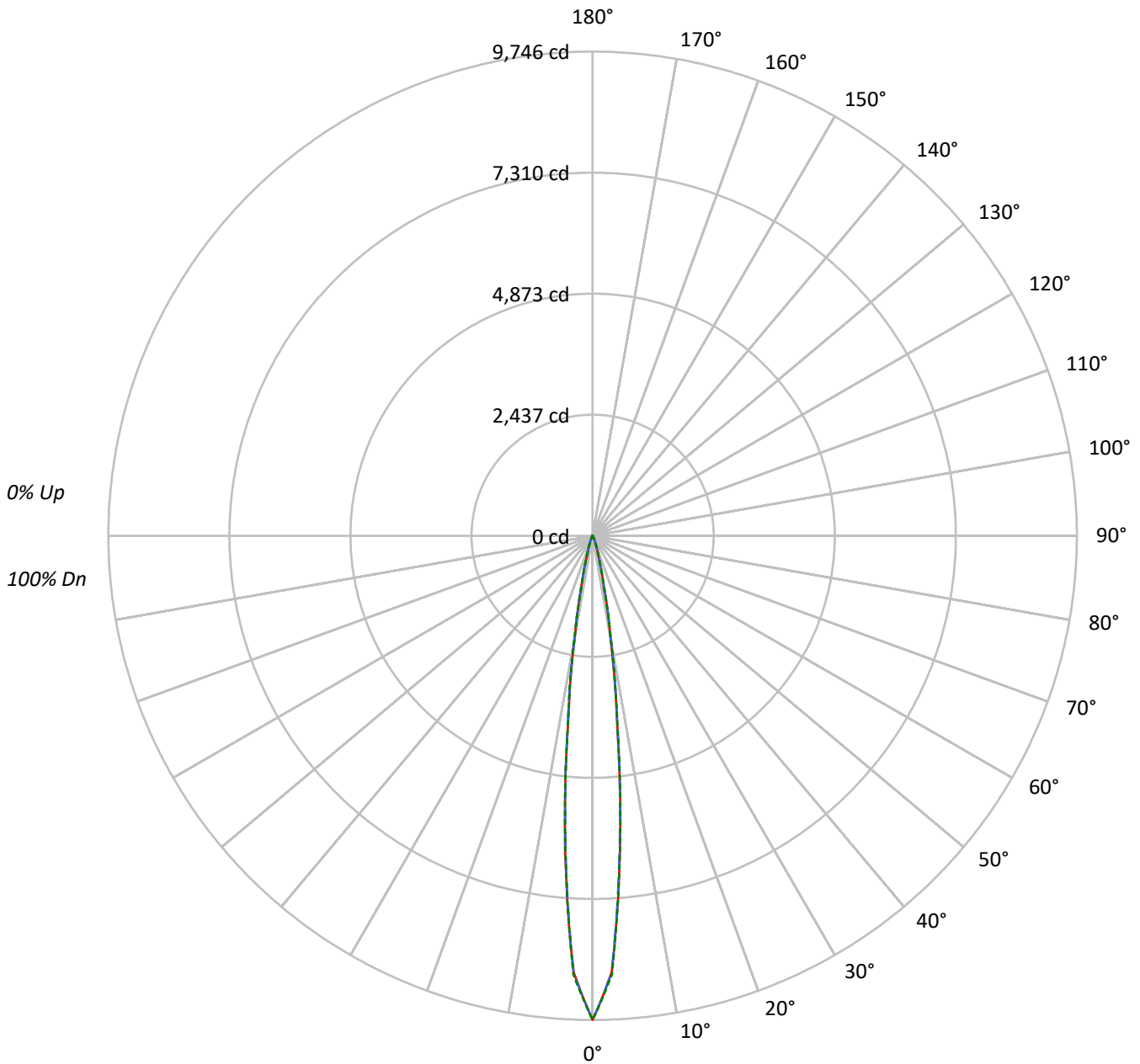
Input Watts (W): 7.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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	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°	1096608	1096608	1096608
5°	644419	636075	641106
10°	192326	193679	196636
15°	47841	48770	47267
20°	14311	16577	14614
25°	5048	6427	5110
30°	1857	2441	1887
35°	930	1046	900
40°	589	646	589
45°	434	462	434
50°	348	348	348
55°	285	285	285
60°	232	232	232
65°	178	178	178
70°	154	154	154
75°	91	91	128
80°	63	63	63
85°	33	33	33

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 462 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	463.9	64.9
10°-20°	190.8	26.7
20°-30°	37.9	5.3
30°-40°	9.5	1.3
40°-50°	5.0	0.7
50°-60°	3.7	0.5
60°-70°	2.6	0.4
70°-80°	1.5	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°	692.7	96.8
0°-40°	702.1	98.2
0°-60°	710.8	99.4
0°-90°	715.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	715.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9746	9746	9746	9746	9746	
5°	6341	6276	6259	6302	6308	463
15°	551	561	562	552	544	189
25°	65	73	82	73	66	34
35°	13	14	14	14	12	9
45°	6	6	7	6	6	5
55°	4	4	4	4	4	4
65°	2	2	2	2	2	3
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°	9745.9	9745.9	9745.9	9745.9	9745.9
2.5°	8791.2	8798.6	8801.5	8810.2	8842.4
5°	6340.9	6275.7	6258.8	6302.1	6308.3
7.5°	3756.1	3769.3	3817.6	3828.3	3789.5
10°	2061.2	2078.2	2075.7	2090.5	2107.4
12.5°	1054.1	1040.9	1036.8	1053.7	1030.2
15°	550.8	561.1	561.5	551.6	544.2
17.5°	296.2	308.2	328.0	311.9	287.2
20°	174.9	185.7	202.6	189.4	178.6
22.5°	108.1	116.8	128.7	118.4	109.7
25°	64.8	73.4	82.5	73.0	65.6
27.5°	38.4	45.8	51.6	45.4	38.0
30°	24.8	28.9	32.6	28.5	25.2
32.5°	17.3	19.0	20.6	19.0	17.3
35°	12.8	13.6	14.4	13.6	12.4
37.5°	9.9	10.7	11.1	10.3	9.5
40°	8.3	8.7	9.1	8.7	8.3
42.5°	7.0	7.4	7.4	7.4	7.0
45°	6.2	6.2	6.6	6.2	6.2
47.5°	5.4	5.4	5.8	5.4	5.4
50°	5.0	5.0	5.0	5.0	5.0
52.5°	4.5	4.5	4.5	4.5	4.5
55°	4.1	4.1	4.1	4.1	4.1
57.5°	3.7	3.7	3.7	3.7	3.7
60°	3.3	3.3	3.3	3.3	3.3
62.5°	2.9	2.9	2.9	2.9	2.9
65°	2.5	2.5	2.5	2.5	2.5
67.5°	2.5	2.5	2.5	2.5	2.5
70°	2.1	2.1	2.1	2.1	2.1
72.5°	1.7	1.7	1.7	1.7	1.7
75°	1.2	1.2	1.2	1.2	1.7
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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