

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P751480

Luminaire Tested: LD4D65D010-EU4DR3055659040-4LBDP1B

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P751480  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/30/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D65D010-EU4DR3055659040-4LBDP1B  
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5533.9 lumens  
Efficiency: N/A  
Efficacy: 76.0 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
CIE Type: Direct

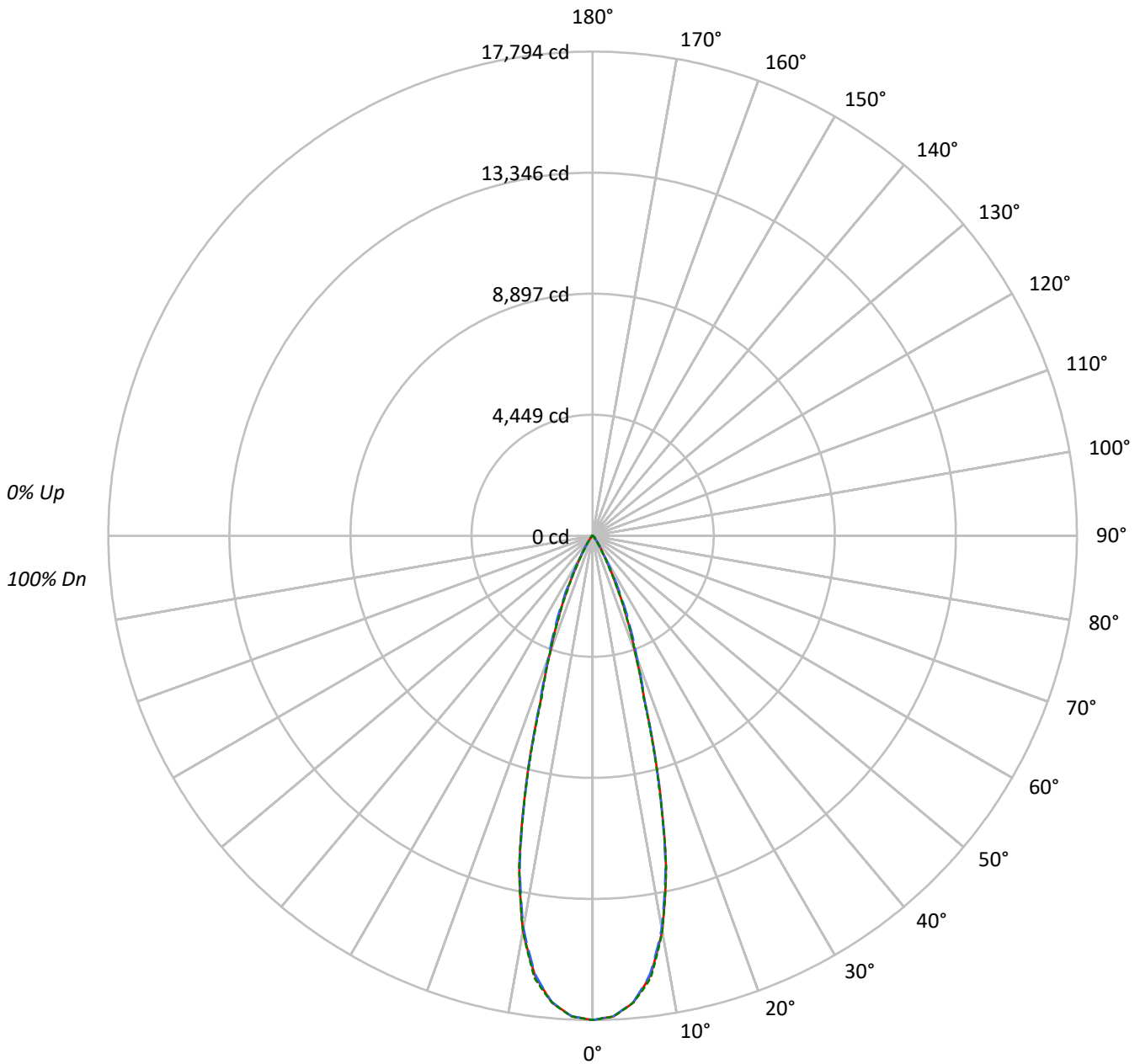
Input Watts (W): 72.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96						96													
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92						92													
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89						89													
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85						85													
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82						82													
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79						79													
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77						77													
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74						74													
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72						72													
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69						69													

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

	0°	45°	90°
0°	1362036	1362036	1362036
5°	1322935	1321391	1322997
10°	1145865	1137781	1145593
15°	747615	743606	739865
20°	371756	385701	371259
25°	187265	211175	183431
30°	74977	81694	65325
35°	34779	33303	27921
40°	15018	16677	14139
45°	10587	13141	10684
50°	3644	9574	3846
55°	2095	3963	2215
60°	1470	1745	1470
65°	942	942	942
70°	582	380	582
75°	0	266	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 13141 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1564.7	28.3
10°-20°	2520.0	45.5
20°-30°	1089.0	19.7
30°-40°	248.2	4.5
40°-50°	85.2	1.5
50°-60°	20.8	0.4
60°-70°	5.4	0.1
70°-80°	0.6	0.0
80°-90°	0.0	0.0
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°	5173.7	93.5
0°-40°	5421.9	98.0
0°-60°	5528.0	99.9
0°-90°	5533.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5533.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	17794	17794	17794	17794	17794	
5°	17218	17201	17198	17233	17218	1566
15°	9434	9321	9384	9353	9337	2526
25°	2217	2301	2500	2243	2172	1061
35°	372	380	356	354	299	252
45°	98	121	121	121	99	69
55°	16	17	30	18	17	15
65°	5	5	5	5	5	5
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	17794.3	17794.3	17794.3	17794.3	17794.3
2.5°	17676.3	17664.1	17671.1	17679.8	17683.3
5°	17217.7	17201.1	17197.6	17233.4	17218.5
7.5°	16292.5	16268.9	16233.1	16314.3	16390.3
10°	14742.7	14716.4	14638.7	14677.1	14739.2
12.5°	12454.6	12369.9	12368.1	12490.4	12473.8
15°	9434.4	9320.9	9383.8	9353.2	9336.6
17.5°	6344.4	6300.7	6384.6	6359.2	6250.0
20°	4563.9	4575.2	4735.1	4654.7	4557.8
22.5°	3330.3	3371.4	3561.0	3353.9	3277.9
25°	2217.3	2301.2	2500.4	2242.6	2171.9
27.5°	1363.8	1402.2	1604.0	1346.3	1307.8
30°	848.3	829.1	924.3	793.3	739.1
32.5°	556.5	532.0	562.6	505.0	461.3
35°	372.2	380.0	356.4	353.8	298.8
37.5°	232.4	267.3	235.9	251.6	192.2
40°	150.3	193.9	166.9	184.3	141.5
42.5°	123.2	149.4	137.2	145.9	125.8
45°	97.8	121.4	121.4	121.4	98.7
47.5°	54.2	81.2	104.0	83.0	57.7
50°	30.6	41.1	80.4	42.8	32.3
52.5°	21.0	23.6	55.0	24.5	21.8
55°	15.7	16.6	29.7	17.5	16.6
57.5°	12.2	13.1	15.7	13.1	12.2
60°	9.6	9.6	11.4	10.5	9.6
62.5°	7.0	7.0	7.9	7.0	7.0
65°	5.2	5.2	5.2	5.2	5.2
67.5°	2.6	3.5	3.5	3.5	3.5
70°	2.6	1.7	1.7	1.7	2.6
72.5°	1.7	0.9	0.9	0.9	0.9
75°	0.0	0.0	0.9	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

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Scaled Data Report



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Scaled Data Report







— 0°-180°    - - 45°-225°    - - - - 90°-270°

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(END OF REPORT)