

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: P751493

Luminaire Tested: LD4D65D010-EU4DR3055659050-4LBDP1B

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P751493  
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-EU4DR3055659050-4LBDP1B  
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5573.5 lumens  
Efficiency: N/A  
Efficacy: 76.6 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

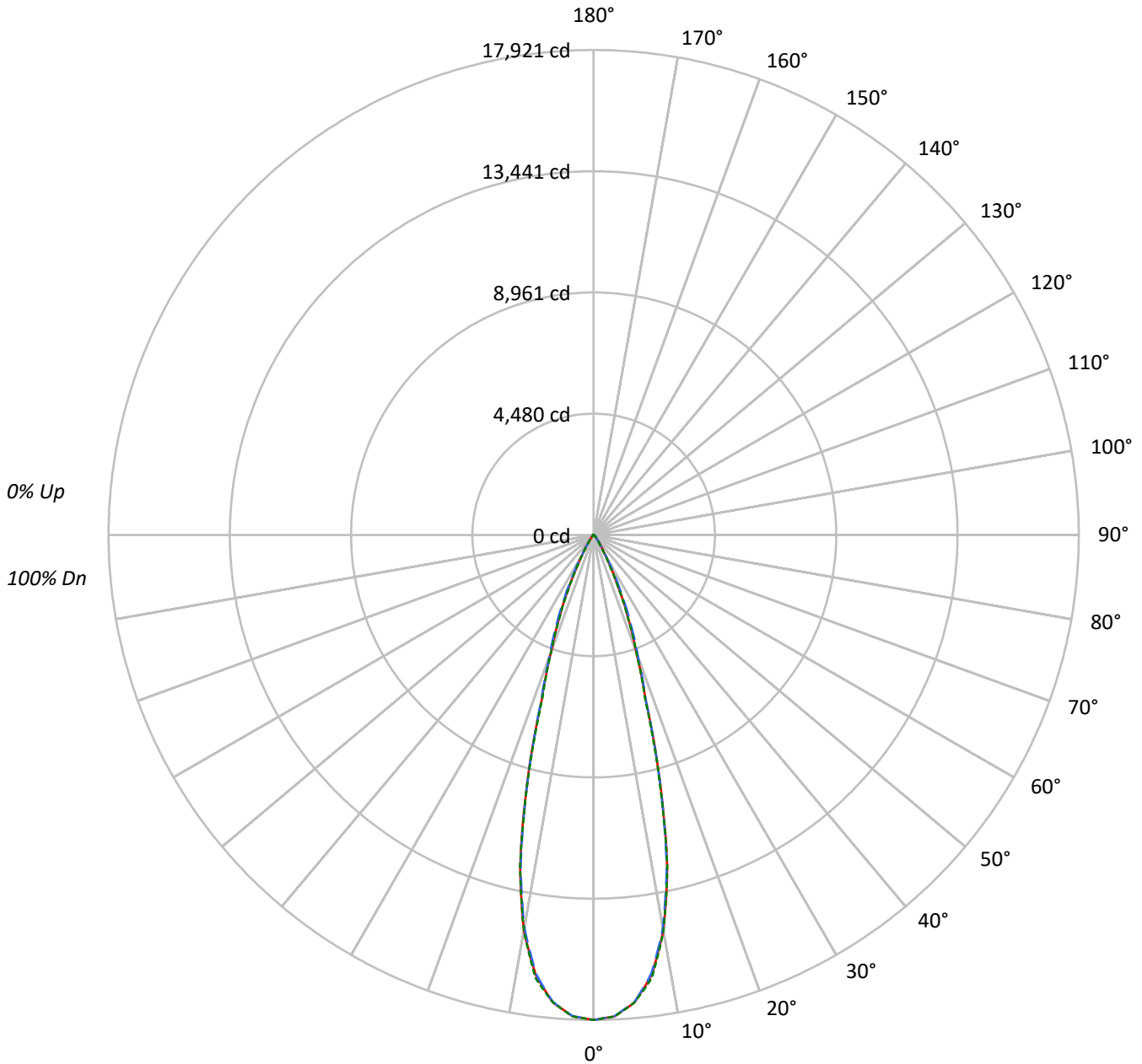
Input Watts (W): 72.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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°	1371765	1371765	1371765
5°	1332386	1330826	1332448
10°	1154049	1145911	1153769
15°	752956	748915	745151
20°	374411	388454	373906
25°	188599	212678	184740
30°	75516	82277	65794
35°	35022	33546	28117
40°	15118	16797	14239
45°	10662	13239	10760
50°	3668	9634	3882
55°	2108	3990	2229
60°	1485	1745	1485
65°	960	960	960
70°	582	403	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: 13239 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1575.9	28.3
10°-20°	2538.0	45.5
20°-30°	1096.7	19.7
30°-40°	250.0	4.5
40°-50°	85.8	1.5
50°-60°	21.0	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°	5210.7	93.5
0°-40°	5460.7	98.0
0°-60°	5567.4	99.9
0°-90°	5573.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5573.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	17921	17921	17921	17921	17921	
5°	17341	17324	17320	17356	17342	1577
15°	9502	9387	9451	9420	9403	2544
25°	2233	2318	2518	2259	2187	1069
35°	375	383	359	356	301	254
45°	98	122	122	122	99	70
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°	17921.4	17921.4	17921.4	17921.4	17921.4
2.5°	17802.6	17790.3	17797.3	17806.1	17809.6
5°	17340.7	17323.9	17320.4	17356.5	17341.5
7.5°	16408.9	16385.1	16349.0	16430.9	16507.4
10°	14848.0	14821.6	14743.3	14782.0	14844.4
12.5°	12543.6	12458.2	12456.4	12579.6	12562.9
15°	9501.8	9387.4	9450.8	9420.0	9403.3
17.5°	6389.7	6345.7	6430.2	6404.6	6294.7
20°	4596.5	4607.9	4768.9	4688.0	4590.3
22.5°	3354.1	3395.5	3586.4	3377.9	3301.3
25°	2233.1	2317.6	2518.2	2258.6	2187.4
27.5°	1373.5	1412.2	1615.5	1355.9	1317.2
30°	854.4	835.0	930.9	798.9	744.4
32.5°	560.5	535.8	566.6	508.6	464.6
35°	374.8	382.7	359.0	356.4	300.9
37.5°	234.0	269.2	237.6	253.4	193.6
40°	151.3	195.3	168.1	185.7	142.5
42.5°	124.1	150.5	138.1	146.9	126.7
45°	98.5	122.3	122.3	122.3	99.4
47.5°	54.6	81.8	104.7	83.6	58.1
50°	30.8	41.4	80.9	43.1	32.6
52.5°	21.1	23.8	55.4	24.6	22.0
55°	15.8	16.7	29.9	17.6	16.7
57.5°	12.3	13.2	15.8	13.2	12.3
60°	9.7	9.7	11.4	10.6	9.7
62.5°	7.0	7.0	7.9	7.0	7.0
65°	5.3	5.3	5.3	5.3	5.3
67.5°	2.6	3.5	3.5	3.5	3.5
70°	2.6	1.8	1.8	1.8	2.6
72.5°	1.8	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

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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