

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: P751497

Luminaire Tested: LD4D65D010-EU4DR3055659050-4LBS1B

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P751497  
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-EU4DR3055659050-4LBS1B  
Description: 4 INCH ROUND SHALLOW 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: 6832.3 lumens  
Efficiency: N/A  
Efficacy: 93.8 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

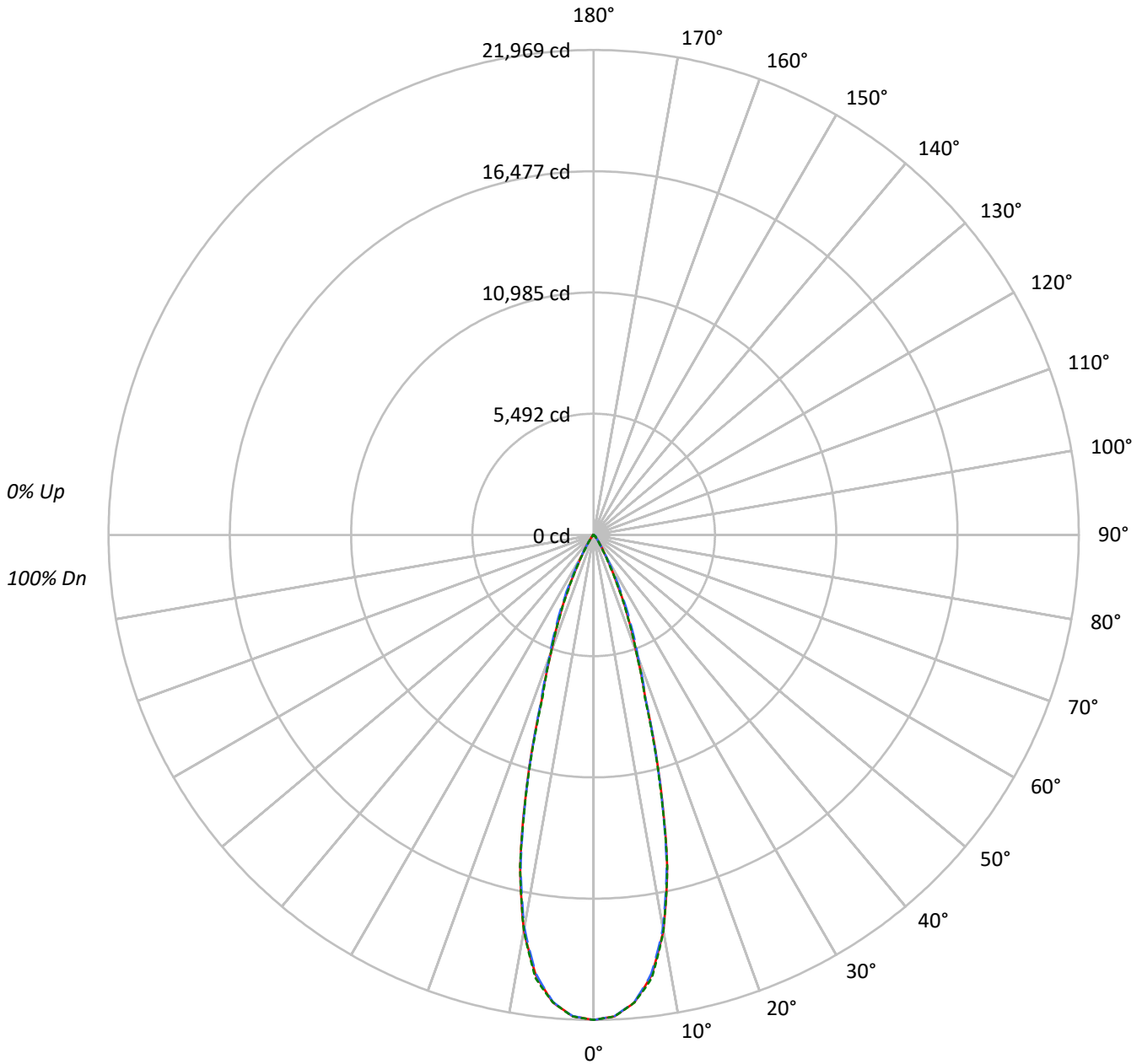
Input Watts (W): 72.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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°	1681582	1681582	1681582
5°	1633306	1631400	1633390
10°	1414689	1404717	1414355
15°	923013	918060	913440
20°	458971	476190	458360
25°	231199	260717	226461
30°	92565	100865	80651
35°	42937	41124	34471
40°	18535	20584	17456
45°	13076	16226	13196
50°	4501	11813	4751
55°	2589	4898	2736
60°	1822	2143	1822
65°	1177	1177	1177
70°	716	492	716
75°	0	325	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 16226 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1931.8	28.3
10°-20°	3111.2	45.5
20°-30°	1344.5	19.7
30°-40°	306.4	4.5
40°-50°	105.2	1.5
50°-60°	25.7	0.4
60°-70°	6.7	0.1
70°-80°	0.7	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°	6387.5	93.5
0°-40°	6694.0	98.0
0°-60°	6824.9	99.9
0°-90°	6832.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6832.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	21969	21969	21969	21969	21969	
5°	21257	21237	21232	21276	21258	1933
15°	11648	11508	11585	11548	11527	3119
25°	2738	2841	3087	2769	2681	1310
35°	460	469	440	437	369	312
45°	121	150	150	150	122	86
55°	19	20	37	22	20	19
65°	6	6	6	6	6	6
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°	21969.0	21969.0	21969.0	21969.0	21969.0
2.5°	21823.4	21808.3	21816.9	21827.7	21832.0
5°	21257.1	21236.6	21232.3	21276.5	21258.2
7.5°	20114.8	20085.7	20041.5	20141.8	20235.6
10°	18201.4	18169.0	18073.1	18120.5	18197.1
12.5°	15376.5	15271.9	15269.8	15420.8	15400.3
15°	11647.8	11507.6	11585.3	11547.5	11527.0
17.5°	7832.8	7778.9	7882.4	7851.1	7716.3
20°	5634.6	5648.6	5846.0	5746.8	5627.1
22.5°	4111.6	4162.3	4396.4	4140.8	4046.9
25°	2737.5	2841.0	3087.0	2768.8	2681.4
27.5°	1683.7	1731.2	1980.3	1662.1	1614.7
30°	1047.3	1023.6	1141.2	979.4	912.5
32.5°	687.1	656.9	694.6	623.4	569.5
35°	459.5	469.2	440.1	436.8	368.9
37.5°	286.9	330.1	291.2	310.6	237.3
40°	185.5	239.4	206.0	227.6	174.7
42.5°	152.1	184.4	169.3	180.1	155.3
45°	120.8	149.9	149.9	149.9	121.9
47.5°	66.9	100.3	128.4	102.5	71.2
50°	37.8	50.7	99.2	52.9	39.9
52.5°	25.9	29.1	68.0	30.2	27.0
55°	19.4	20.5	36.7	21.6	20.5
57.5°	15.1	16.2	19.4	16.2	15.1
60°	11.9	11.9	14.0	12.9	11.9
62.5°	8.6	8.6	9.7	8.6	8.6
65°	6.5	6.5	6.5	6.5	6.5
67.5°	3.2	4.3	4.3	4.3	4.3
70°	3.2	2.2	2.2	2.2	3.2
72.5°	2.2	1.1	1.1	1.1	1.1
75°	0.0	0.0	1.1	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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