

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: P751484

Luminaire Tested: LD4D65D010-EU4DR3055659040-4LBS1B

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P751484  
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-EU4DR3055659040-4LBS1B  
Description: 4 INCH ROUND SHALLOW 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: 6783.8 lumens  
Efficiency: N/A  
Efficacy: 93.2 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

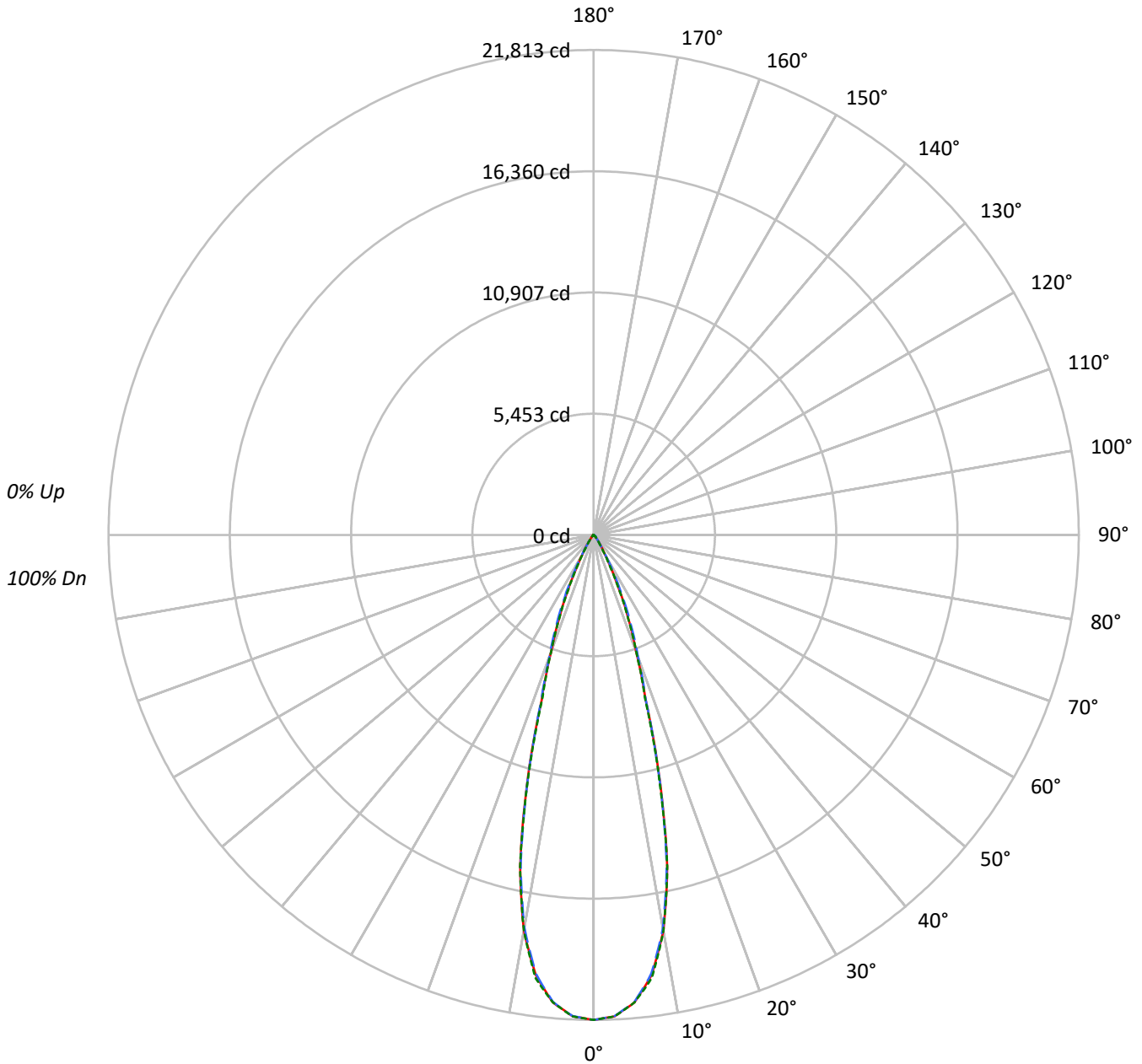
Input Watts (W): 72.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96																			
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92																			
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89																			
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85																			
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82																			
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79																			
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77																			
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74																			
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72																			
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69																			

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

	0°	45°	90°
0°	1669656	1669656	1669656
5°	1621719	1619829	1621804
10°	1404655	1394753	1404321
15°	916468	911547	906966
20°	455721	472818	455110
25°	229561	258867	224856
30°	91911	100149	80077
35°	42628	40825	34228
40°	18405	20444	17336
45°	12979	16118	13098
50°	4466	11729	4716
55°	2576	4858	2709
60°	1806	2128	1806
65°	1159	1159	1159
70°	716	470	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: 16118 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1918.1	28.3
10°-20°	3089.2	45.5
20°-30°	1334.9	19.7
30°-40°	304.3	4.5
40°-50°	104.5	1.5
50°-60°	25.5	0.4
60°-70°	6.6	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°	6342.2	93.5
0°-40°	6646.5	98.0
0°-60°	6776.5	99.9
0°-90°	6783.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6783.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	21813	21813	21813	21813	21813	
5°	21106	21086	21082	21126	21107	1920
15°	11565	11426	11503	11466	11445	3097
25°	2718	2821	3065	2749	2662	1301
35°	456	466	437	434	366	309
45°	120	149	149	149	121	85
55°	19	20	36	21	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°	21813.2	21813.2	21813.2	21813.2	21813.2
2.5°	21668.6	21653.6	21662.2	21672.9	21677.1
5°	21106.3	21086.0	21081.7	21125.6	21107.4
7.5°	19972.2	19943.3	19899.4	19999.0	20092.1
10°	18072.3	18040.2	17944.9	17992.0	18068.0
12.5°	15267.5	15163.6	15161.5	15311.4	15291.1
15°	11565.2	11426.0	11503.1	11465.6	11445.3
17.5°	7777.3	7723.7	7826.5	7795.5	7661.6
20°	5594.7	5608.6	5804.6	5706.0	5587.2
22.5°	4082.5	4132.8	4365.2	4111.4	4018.2
25°	2718.1	2820.9	3065.1	2749.1	2662.4
27.5°	1671.8	1718.9	1966.3	1650.3	1603.2
30°	1039.9	1016.3	1133.1	972.4	906.0
32.5°	682.2	652.2	689.7	619.0	565.5
35°	456.2	465.9	436.9	433.7	366.3
37.5°	284.9	327.7	289.2	308.4	235.6
40°	184.2	237.8	204.6	226.0	173.5
42.5°	151.0	183.1	168.1	178.8	154.2
45°	119.9	148.9	148.9	148.9	121.0
47.5°	66.4	99.6	127.4	101.7	70.7
50°	37.5	50.3	98.5	52.5	39.6
52.5°	25.7	28.9	67.5	30.0	26.8
55°	19.3	20.3	36.4	21.4	20.3
57.5°	15.0	16.1	19.3	16.1	15.0
60°	11.8	11.8	13.9	12.9	11.8
62.5°	8.6	8.6	9.6	8.6	8.6
65°	6.4	6.4	6.4	6.4	6.4
67.5°	3.2	4.3	4.3	4.3	4.3
70°	3.2	2.1	2.1	2.1	3.2
72.5°	2.1	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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(END OF REPORT)