

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: P751430

Luminaire Tested: LD4D65D010-EU4DR3055659024-4LBDP1LI

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P751430  
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-EU4DR3055659024-4LBDP1LI  
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5846.6 lumens  
Efficiency: N/A  
Efficacy: 80.3 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

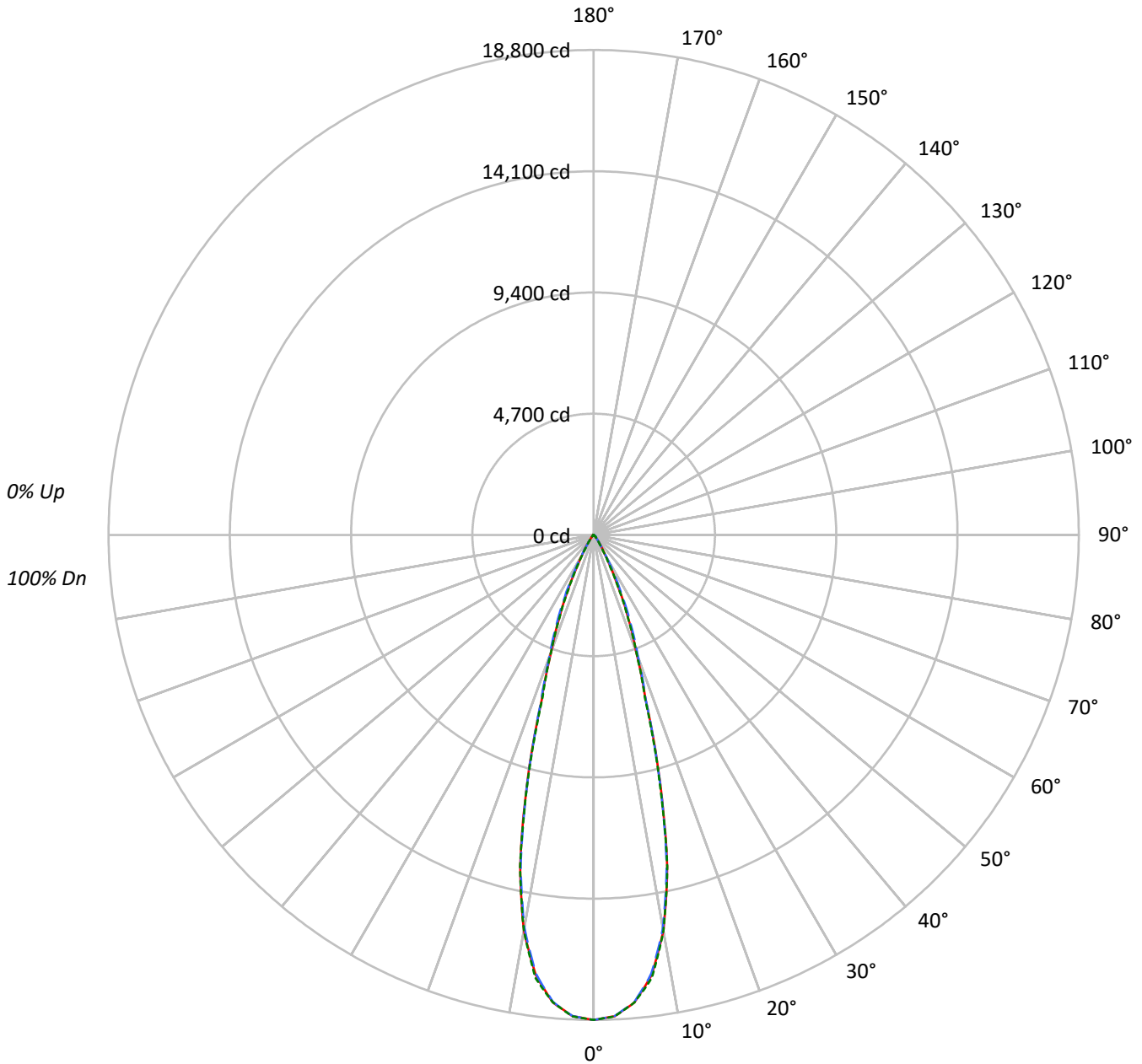
Input Watts (W): 72.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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°	1439001	1439001	1439001
5°	1397689	1396060	1397766
10°	1210617	1202075	1210329
15°	789868	785621	781674
20°	392763	407499	392234
25°	197847	223100	193793
30°	79210	86308	69020
35°	36741	35190	29500
40°	15867	17616	14938
45°	11193	13888	11290
50°	3846	10110	4073
55°	2215	4190	2335
60°	1561	1837	1561
65°	996	996	996
70°	627	403	627
75°	0	266	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 13888 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1653.2	28.3
10°-20°	2662.4	45.5
20°-30°	1150.5	19.7
30°-40°	262.2	4.5
40°-50°	90.0	1.5
50°-60°	22.0	0.4
60°-70°	5.7	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°	5466.1	93.5
0°-40°	5728.3	98.0
0°-60°	5840.3	99.9
0°-90°	5846.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5846.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	18800	18800	18800	18800	18800	
5°	18191	18173	18169	18207	18192	1655
15°	9968	9848	9914	9882	9864	2669
25°	2343	2431	2642	2369	2295	1121
35°	393	402	377	374	316	267
45°	103	128	128	128	104	73
55°	17	18	31	18	18	16
65°	6	6	6	6	6	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°	18799.8	18799.8	18799.8	18799.8	18799.8
2.5°	18675.2	18662.3	18669.7	18678.9	18682.6
5°	18190.6	18173.1	18169.4	18207.2	18191.6
7.5°	17213.2	17188.2	17150.4	17236.2	17316.5
10°	15575.8	15548.1	15465.9	15506.5	15572.1
12.5°	13158.4	13068.9	13067.0	13196.2	13178.7
15°	9967.6	9847.6	9914.0	9881.7	9864.2
17.5°	6702.9	6656.7	6745.3	6718.6	6603.2
20°	4821.8	4833.8	5002.7	4917.8	4815.3
22.5°	3518.5	3561.9	3762.2	3543.4	3463.1
25°	2342.6	2431.2	2641.6	2369.4	2294.6
27.5°	1440.8	1481.4	1694.6	1422.4	1381.7
30°	896.2	875.9	976.5	838.1	780.9
32.5°	588.0	562.1	594.4	533.5	487.3
35°	393.2	401.5	376.6	373.8	315.7
37.5°	245.5	282.4	249.2	265.8	203.1
40°	158.8	204.9	176.3	194.8	149.5
42.5°	130.1	157.8	144.9	154.1	132.9
45°	103.4	128.3	128.3	128.3	104.3
47.5°	57.2	85.8	109.8	87.7	60.9
50°	32.3	43.4	84.9	45.2	34.2
52.5°	22.2	24.9	58.1	25.8	23.1
55°	16.6	17.5	31.4	18.5	17.5
57.5°	12.9	13.8	16.6	13.8	12.9
60°	10.2	10.2	12.0	11.1	10.2
62.5°	7.4	7.4	8.3	7.4	7.4
65°	5.5	5.5	5.5	5.5	5.5
67.5°	2.8	3.7	3.7	3.7	3.7
70°	2.8	1.8	1.8	1.8	2.8
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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(END OF REPORT)