

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: P751467

Luminaire Tested: LD4D65D010-EU4DR3055659035-4LBDP1B

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P751467  
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-EU4DR3055659035-4LBDP1B  
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5286.8 lumens  
Efficiency: N/A  
Efficacy: 72.6 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

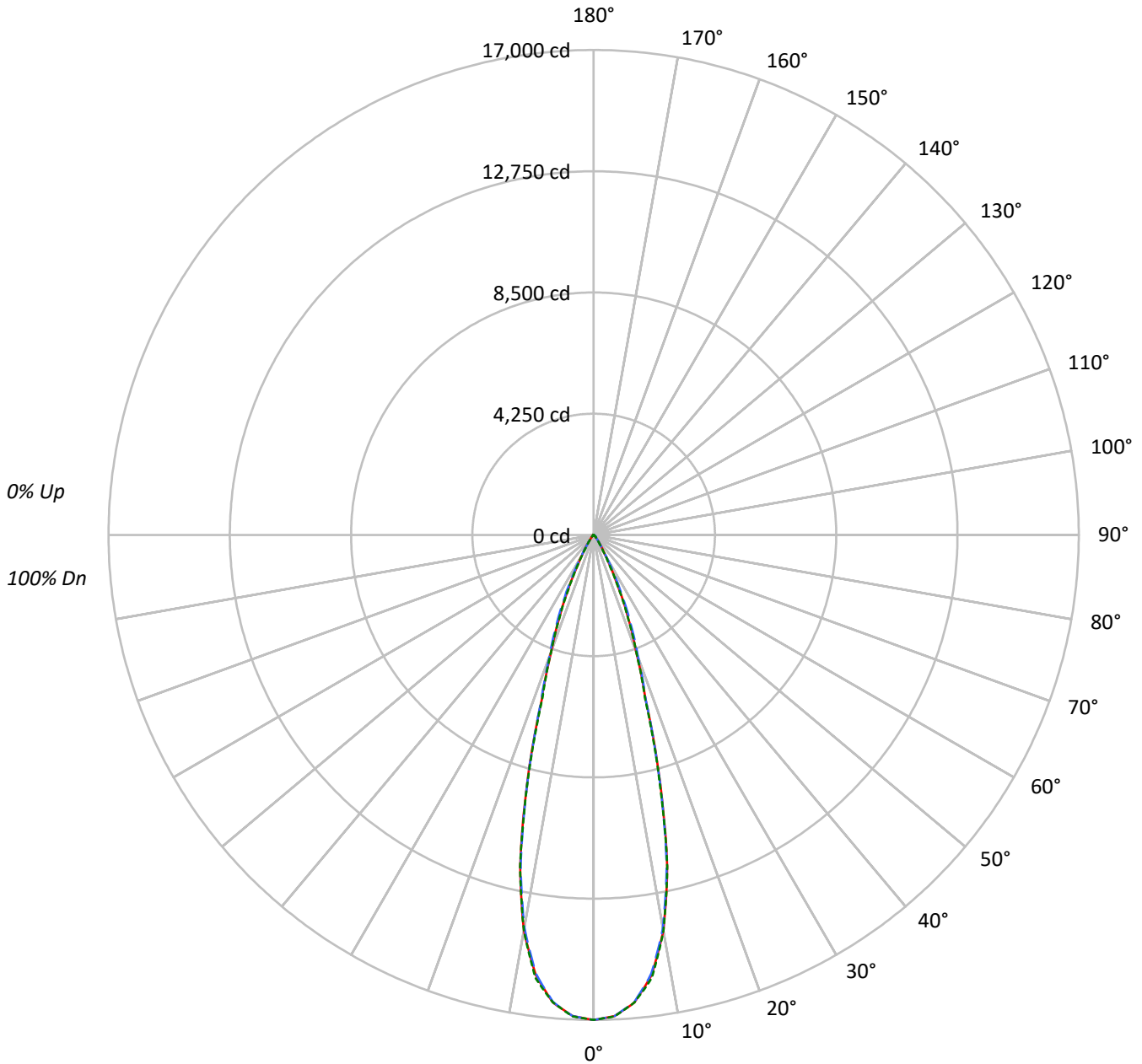
Input Watts (W): 72.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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°	1301199	1301199	1301199
5°	1263849	1262373	1263910
10°	1094683	1086965	1094427
15°	714222	710387	706821
20°	355147	368473	354675
25°	178904	201741	175238
30°	71627	78044	62408
35°	33219	31817	26668
40°	14349	15927	13509
45°	10121	12557	10208
50°	3477	9145	3680
55°	2002	3790	2122
60°	1408	1669	1408
65°	906	906	906
70°	559	380	559
75°	0	237	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 12557 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1494.9	28.3
10°-20°	2407.5	45.5
20°-30°	1040.3	19.7
30°-40°	237.1	4.5
40°-50°	81.4	1.5
50°-60°	19.9	0.4
60°-70°	5.2	0.1
70°-80°	0.5	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°	4942.7	93.5
0°-40°	5179.8	98.0
0°-60°	5281.1	99.9
0°-90°	5286.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5286.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	17000	17000	17000	17000	17000	
5°	16449	16433	16430	16464	16450	1496
15°	9013	8904	8965	8935	8920	2413
25°	2118	2198	2389	2142	2075	1014
35°	356	363	340	338	285	241
45°	94	116	116	116	94	66
55°	15	16	28	17	16	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°	16999.5	16999.5	16999.5	16999.5	16999.5
2.5°	16886.8	16875.2	16881.8	16890.2	16893.5
5°	16448.7	16432.8	16429.5	16463.7	16449.5
7.5°	15564.8	15542.3	15508.0	15585.7	15658.3
10°	14084.2	14059.2	13984.9	14021.6	14080.9
12.5°	11898.3	11817.4	11815.7	11932.5	11916.7
15°	9013.0	8904.5	8964.6	8935.4	8919.6
17.5°	6061.0	6019.3	6099.4	6075.2	5970.9
20°	4360.0	4370.9	4523.6	4446.8	4354.2
22.5°	3181.6	3220.8	3401.9	3204.1	3131.5
25°	2118.3	2198.4	2388.7	2142.5	2074.9
27.5°	1302.8	1339.6	1532.4	1286.1	1249.4
30°	810.4	792.1	883.0	757.8	706.1
32.5°	531.7	508.3	537.5	482.4	440.7
35°	355.5	363.1	340.5	338.0	285.4
37.5°	222.0	255.4	225.3	240.4	183.6
40°	143.6	185.3	159.4	176.1	135.2
42.5°	117.7	142.7	131.0	139.4	120.2
45°	93.5	116.0	116.0	116.0	94.3
47.5°	51.7	77.6	99.3	79.3	55.1
50°	29.2	39.2	76.8	40.9	30.9
52.5°	20.0	22.5	52.6	23.4	20.9
55°	15.0	15.9	28.4	16.7	15.9
57.5°	11.7	12.5	15.0	12.5	11.7
60°	9.2	9.2	10.9	10.0	9.2
62.5°	6.7	6.7	7.5	6.7	6.7
65°	5.0	5.0	5.0	5.0	5.0
67.5°	2.5	3.3	3.3	3.3	3.3
70°	2.5	1.7	1.7	1.7	2.5
72.5°	1.7	0.8	0.8	0.8	0.8
75°	0.0	0.0	0.8	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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