

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: P748336

Luminaire Tested: LD4D45BD010-EU4DR3040509030-4LBDP1LI

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P748336  
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: LD4D45BD010-EU4DR3040509030-4LBDP1LI  
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4225.3 lumens  
Efficiency: N/A  
Efficacy: 109.2 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): 38.7  
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

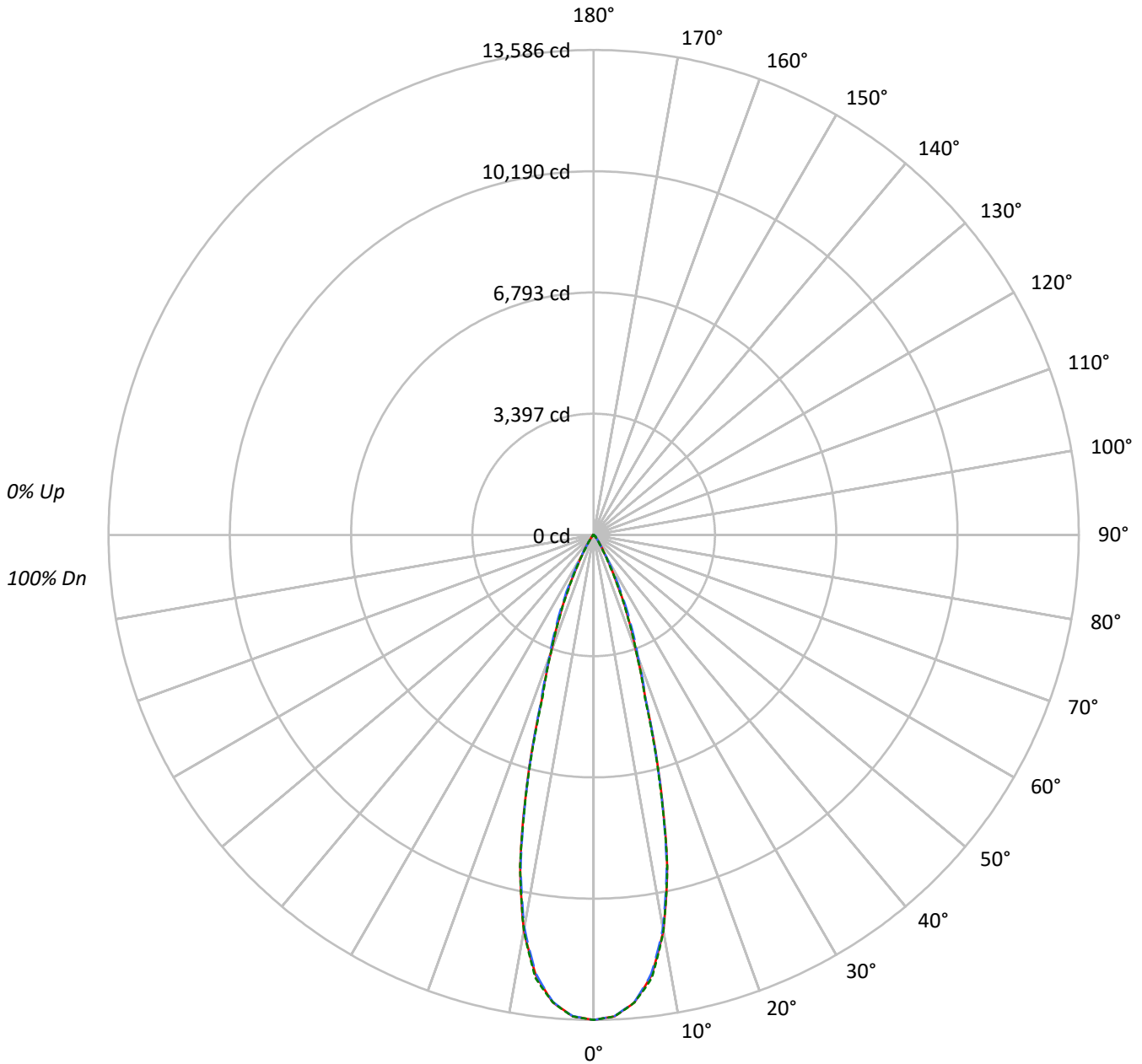


Downlight

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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°	1039942	1039942	1039942
5°	1010091	1008908	1010137
10°	874887	868723	874685
15°	570823	567756	564904
20°	283841	294495	283466
25°	142985	161236	140054
30°	57247	62373	49875
35°	26556	25435	21314
40°	11461	12730	10801
45°	8086	10035	8162
50°	2775	7312	2941
55°	1601	3029	1695
60°	1118	1332	1118
65°	724	724	724
70°	448	291	448
75°	0	207	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 10035 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1194.7	28.3
10°-20°	1924.1	45.5
20°-30°	831.5	19.7
30°-40°	189.5	4.5
40°-50°	65.1	1.5
50°-60°	15.9	0.4
60°-70°	4.1	0.1
70°-80°	0.4	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°	3950.3	93.5
0°-40°	4139.8	98.0
0°-60°	4220.7	99.9
0°-90°	4225.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4225.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	13586	13586	13586	13586	13586	
5°	13146	13133	13131	13158	13147	1196
15°	7203	7117	7165	7141	7129	1929
25°	1693	1757	1909	1712	1658	810
35°	284	290	272	270	228	193
45°	75	93	93	93	75	53
55°	12	13	23	13	13	12
65°	4	4	4	4	4	4
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°	13586.3	13586.3	13586.3	13586.3	13586.3
2.5°	13496.3	13486.9	13492.3	13498.9	13501.6
5°	13146.1	13133.4	13130.7	13158.1	13146.7
7.5°	12439.7	12421.7	12394.3	12456.4	12514.4
10°	11256.3	11236.3	11177.0	11206.3	11253.7
12.5°	9509.4	9444.7	9443.3	9536.7	9524.0
15°	7203.4	7116.7	7164.7	7141.4	7128.7
17.5°	4844.1	4810.7	4874.7	4855.4	4772.0
20°	3484.6	3493.3	3615.4	3554.0	3480.0
22.5°	2542.8	2574.1	2718.9	2560.8	2502.7
25°	1693.0	1757.0	1909.1	1712.3	1658.3
27.5°	1041.3	1070.6	1224.7	1027.9	998.6
30°	647.7	633.0	705.7	605.7	564.3
32.5°	424.9	406.2	429.6	385.6	352.2
35°	284.2	290.2	272.2	270.2	228.1
37.5°	177.4	204.1	180.1	192.1	146.7
40°	114.7	148.1	127.4	140.7	108.1
42.5°	94.1	114.1	104.7	111.4	96.1
45°	74.7	92.7	92.7	92.7	75.4
47.5°	41.4	62.0	79.4	63.4	44.0
50°	23.3	31.4	61.4	32.7	24.7
52.5°	16.0	18.0	42.0	18.7	16.7
55°	12.0	12.7	22.7	13.3	12.7
57.5°	9.3	10.0	12.0	10.0	9.3
60°	7.3	7.3	8.7	8.0	7.3
62.5°	5.3	5.3	6.0	5.3	5.3
65°	4.0	4.0	4.0	4.0	4.0
67.5°	2.0	2.7	2.7	2.7	2.7
70°	2.0	1.3	1.3	1.3	2.0
72.5°	1.3	0.7	0.7	0.7	0.7
75°	0.0	0.0	0.7	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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