

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: P745968

Luminaire Tested: LD4D30D010-EU4DR3020359024-4LBDP1B

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P745968  
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: LD4D30D010-EU4DR3020359024-4LBDP1B  
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1837.0 lumens  
Efficiency: N/A  
Efficacy: 63.3 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): 29  
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

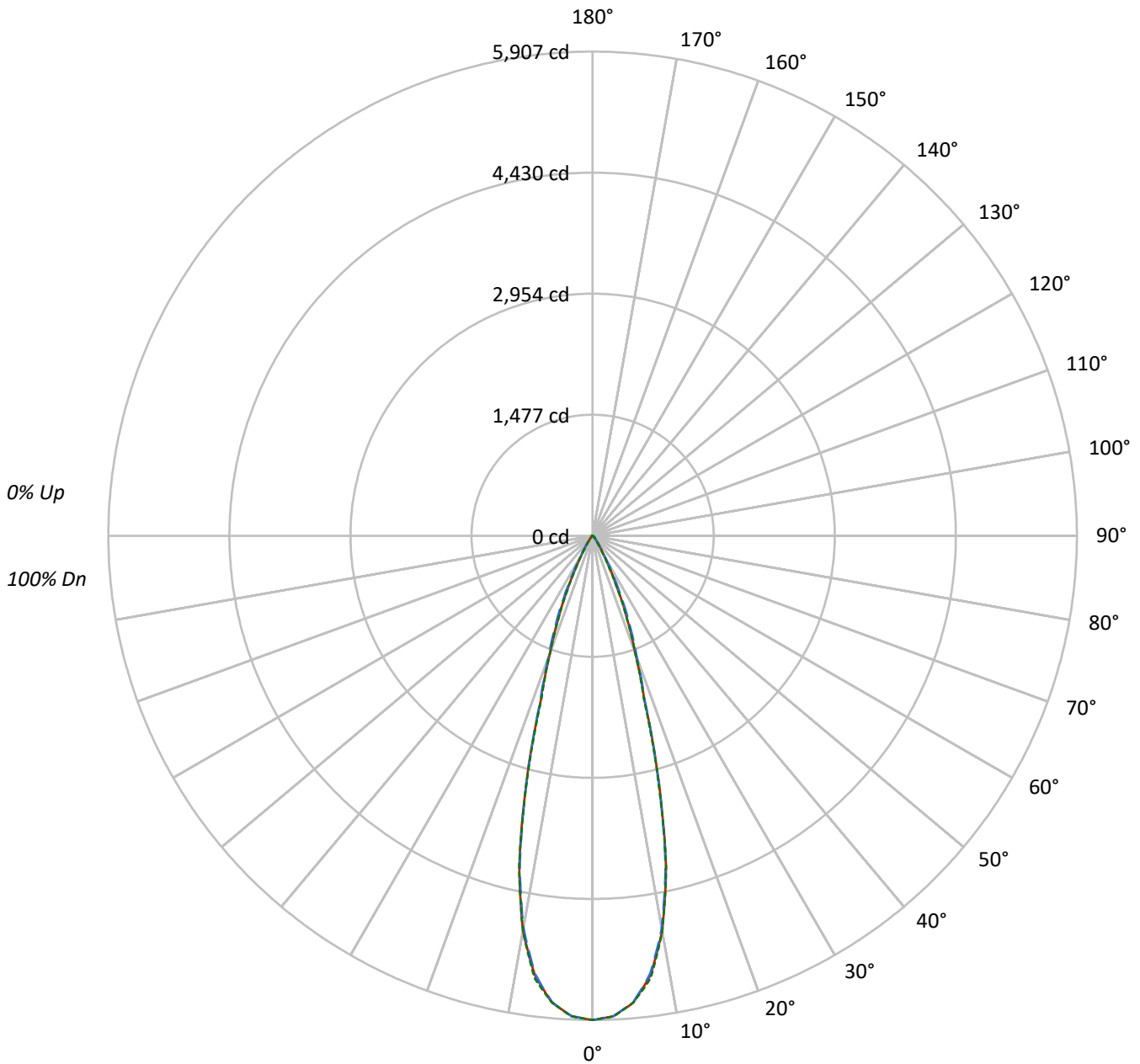


Downlight



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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°	452127	452127	452127
5°	439147	438632	439163
10°	380367	377685	380273
15°	248167	246836	245600
20°	123406	128032	123234
25°	62160	70099	60885
30°	24889	27116	21681
35°	11540	11054	9269
40°	4986	5536	4696
45°	3518	4362	3551
50°	1203	3179	1274
55°	694	1321	734
60°	490	582	490
65°	308	308	308
70°	201	134	201
75°	0	89	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 4362 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	519.4	28.3
10°-20°	836.5	45.5
20°-30°	361.5	19.7
30°-40°	82.4	4.5
40°-50°	28.3	1.5
50°-60°	6.9	0.4
60°-70°	1.8	0.1
70°-80°	0.2	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°	1717.4	93.5
0°-40°	1799.8	98.0
0°-60°	1835.0	99.9
0°-90°	1837.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1837.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5907	5907	5907	5907	5907	
5°	5715	5710	5709	5721	5716	520
15°	3132	3094	3115	3105	3099	839
25°	736	764	830	744	721	352
35°	124	126	118	118	99	84
45°	32	40	40	40	33	23
55°	5	6	10	6	6	5
65°	2	2	2	2	2	2
75°	0	0	0	0	0	0
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°	5906.8	5906.8	5906.8	5906.8	5906.8
2.5°	5867.6	5863.6	5865.9	5868.8	5869.9
5°	5715.4	5709.9	5708.7	5720.6	5715.6
7.5°	5408.3	5400.4	5388.5	5415.5	5440.7
10°	4893.8	4885.1	4859.3	4872.0	4892.6
12.5°	4134.2	4106.2	4105.5	4146.2	4140.7
15°	3131.7	3094.0	3114.9	3104.8	3099.3
17.5°	2106.0	2091.5	2119.3	2110.9	2074.7
20°	1515.0	1518.7	1571.8	1545.1	1512.9
22.5°	1105.5	1119.1	1182.1	1113.3	1088.1
25°	736.0	763.9	830.0	744.4	720.9
27.5°	452.7	465.5	532.4	446.9	434.1
30°	281.6	275.2	306.8	263.3	245.3
32.5°	184.7	176.6	186.8	167.6	153.1
35°	123.5	126.2	118.3	117.5	99.2
37.5°	77.1	88.8	78.3	83.5	63.8
40°	49.9	64.4	55.4	61.2	47.0
42.5°	40.9	49.6	45.5	48.4	41.8
45°	32.5	40.3	40.3	40.3	32.8
47.5°	18.0	27.0	34.5	27.6	19.1
50°	10.1	13.6	26.7	14.2	10.7
52.5°	6.9	7.8	18.3	8.1	7.3
55°	5.2	5.5	9.9	5.8	5.5
57.5°	4.1	4.4	5.2	4.4	4.1
60°	3.2	3.2	3.8	3.5	3.2
62.5°	2.3	2.3	2.6	2.3	2.3
65°	1.7	1.7	1.7	1.7	1.7
67.5°	0.9	1.1	1.1	1.1	1.1
70°	0.9	0.6	0.6	0.6	0.9
72.5°	0.6	0.3	0.3	0.3	0.3
75°	0.0	0.0	0.3	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)