

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P749091

Luminaire Tested: LD4D50D010-EU4DR3040509024-4LBDP1MW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P749091  
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: LD4D50D010-EU4DR3040509024-4LBDP1MW  
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3612.5 lumens  
Efficiency: N/A  
Efficacy: 76.9 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): 47  
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

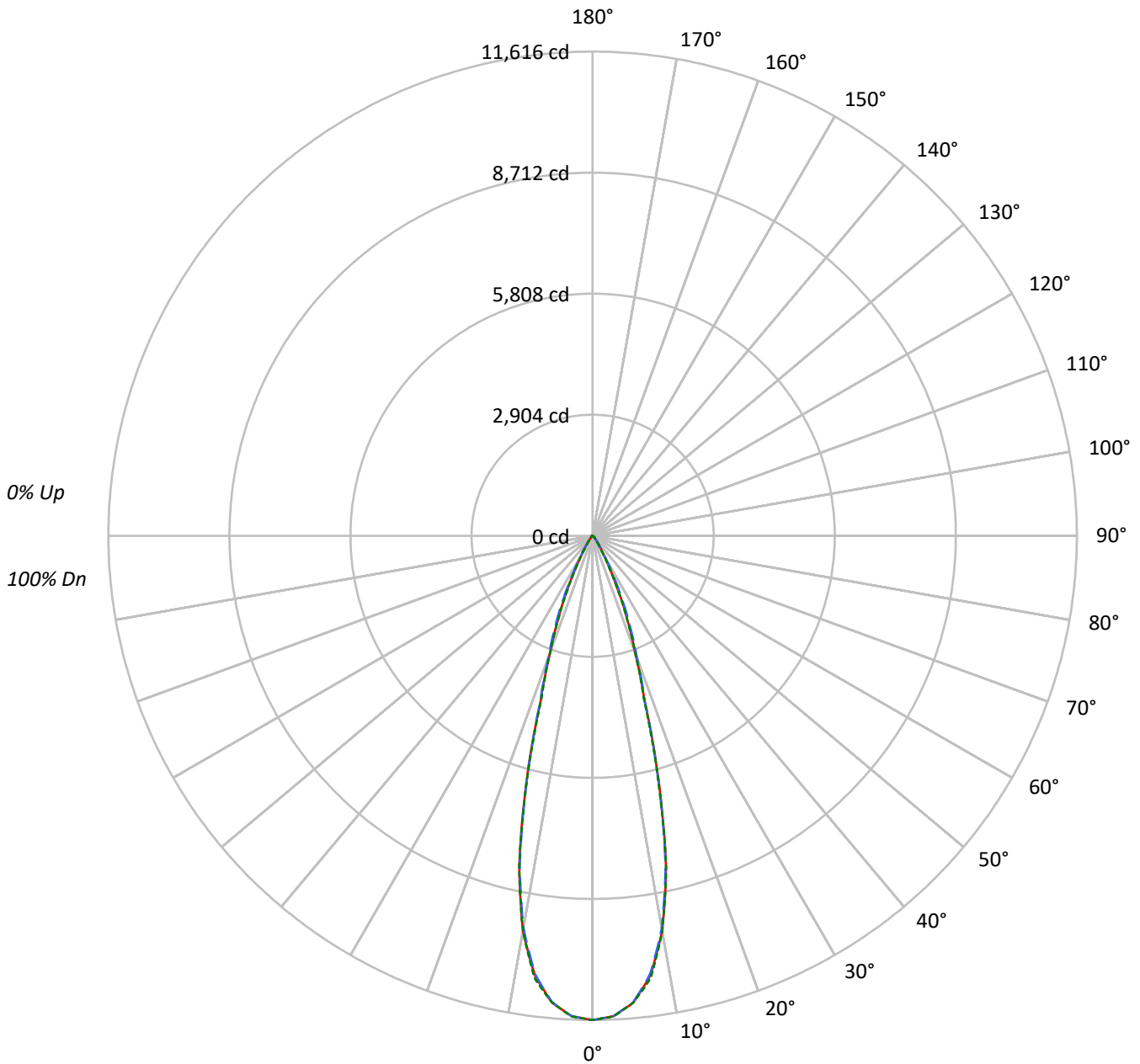


Downlight

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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																			
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°	889113	889113	889113
5°	863588	862582	863634
10°	747994	742725	747823
15°	488029	485406	482966
20°	242673	251780	242347
25°	122242	137850	119742
30°	48947	53331	42646
35°	22697	21744	18221
40°	9802	10881	9233
45°	6917	8584	6971
50°	2382	6252	2513
55°	1375	2589	1441
60°	964	1133	964
65°	616	616	616
70°	380	246	380
75°	0	177	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 8584 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1021.4	28.3
10°-20°	1645.0	45.5
20°-30°	710.9	19.7
30°-40°	162.0	4.5
40°-50°	55.6	1.5
50°-60°	13.6	0.4
60°-70°	3.5	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°	3377.3	93.5
0°-40°	3539.3	98.0
0°-60°	3608.6	99.9
0°-90°	3612.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3612.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	11616	11616	11616	11616	11616	
5°	11239	11228	11226	11250	11240	1022
15°	6159	6084	6126	6106	6095	1649
25°	1447	1502	1632	1464	1418	693
35°	243	248	233	231	195	165
45°	64	79	79	79	64	45
55°	10	11	19	11	11	10
65°	3	3	3	3	3	3
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°	11615.8	11615.8	11615.8	11615.8	11615.8
2.5°	11538.8	11530.8	11535.4	11541.1	11543.3
5°	11239.4	11228.5	11226.3	11249.6	11240.0
7.5°	10635.4	10620.0	10596.7	10649.7	10699.3
10°	9623.7	9606.6	9555.9	9581.0	9621.5
12.5°	8130.1	8074.8	8073.7	8153.5	8142.7
15°	6158.6	6084.5	6125.5	6105.6	6094.7
17.5°	4141.5	4113.0	4167.7	4151.2	4079.9
20°	2979.2	2986.6	3091.0	3038.5	2975.2
22.5°	2174.0	2200.8	2324.5	2189.4	2139.7
25°	1447.4	1502.2	1632.2	1463.9	1417.8
27.5°	890.2	915.3	1047.1	878.8	853.7
30°	553.8	541.2	603.4	517.8	482.5
32.5°	363.3	347.3	367.3	329.6	301.1
35°	242.9	248.1	232.7	231.0	195.0
37.5°	151.7	174.5	154.0	164.2	125.5
40°	98.1	126.6	108.9	120.3	92.4
42.5°	80.4	97.5	89.5	95.2	82.1
45°	63.9	79.3	79.3	79.3	64.4
47.5°	35.4	53.0	67.9	54.2	37.6
50°	20.0	26.8	52.5	27.9	21.1
52.5°	13.7	15.4	35.9	16.0	14.3
55°	10.3	10.8	19.4	11.4	10.8
57.5°	8.0	8.6	10.3	8.6	8.0
60°	6.3	6.3	7.4	6.8	6.3
62.5°	4.6	4.6	5.1	4.6	4.6
65°	3.4	3.4	3.4	3.4	3.4
67.5°	1.7	2.3	2.3	2.3	2.3
70°	1.7	1.1	1.1	1.1	1.7
72.5°	1.1	0.6	0.6	0.6	0.6
75°	0.0	0.0	0.6	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

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Scaled Data Report



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Scaled Data Report







— 0°-180°    - - 45°-225°    - - - - 90°-270°

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(END OF REPORT)