

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: P755331

Luminaire Tested: LD4D90BD010-EU4DR3070959024-4LBDP1MW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P755331  
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: LD4D90BD010-EU4DR3070959024-4LBDP1MW  
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: 6415.8 lumens  
Efficiency: N/A  
Efficacy: 64.9 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

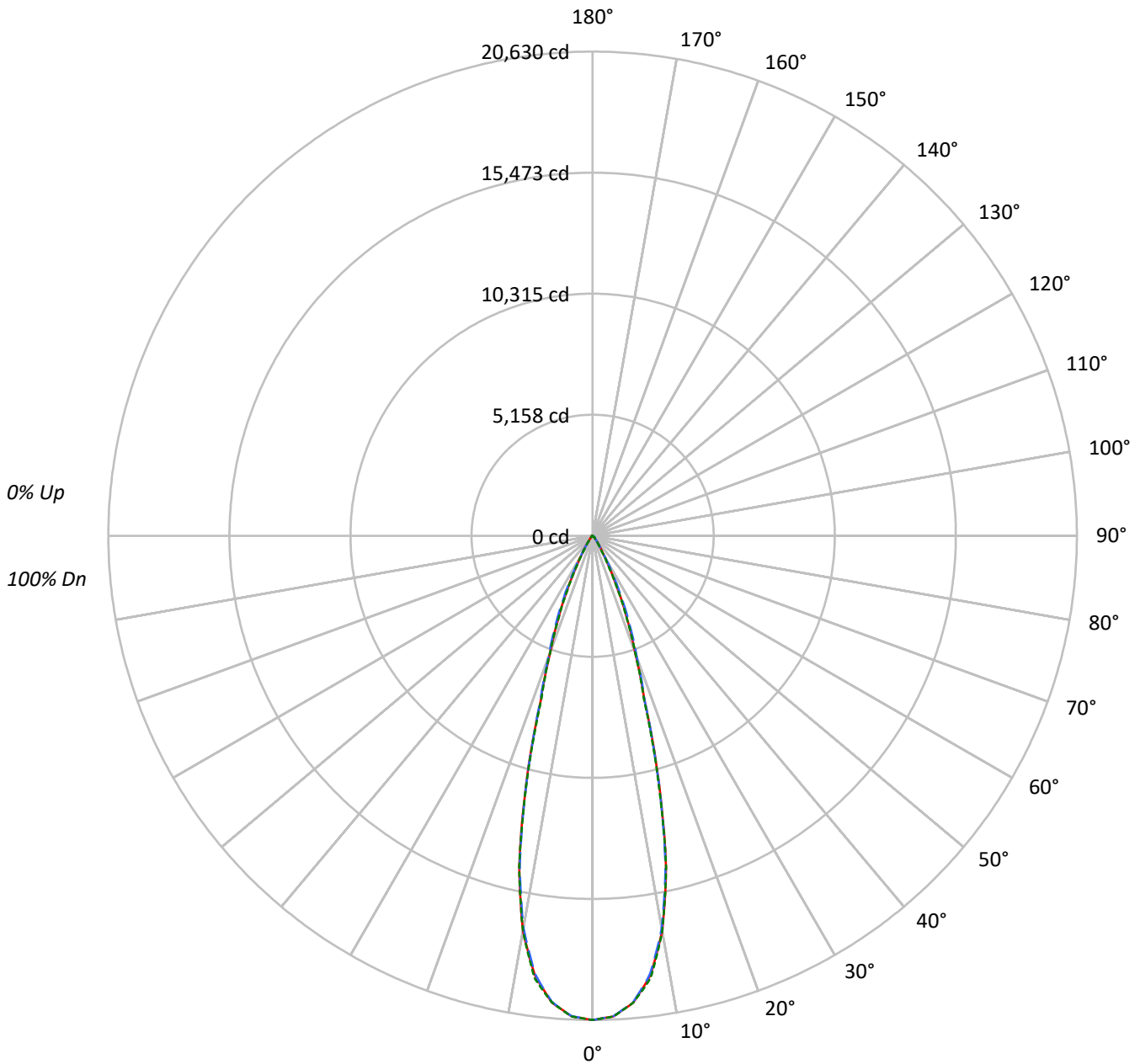
Input Watts (W): 98.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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°	1579083	1579083	1579083
5°	1533750	1531959	1533827
10°	1328462	1319089	1328143
15°	866750	862099	857764
20°	430999	447168	430420
25°	217103	244822	212661
30°	86926	94713	75737
35°	40320	38610	32368
40°	17406	19335	16397
45°	12275	15241	12394
50°	4215	11098	4466
55°	2429	4591	2562
60°	1699	2021	1699
65°	1105	1105	1105
70°	671	448	671
75°	0	296	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 15241 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1814.1	28.3
10°-20°	2921.6	45.5
20°-30°	1262.5	19.7
30°-40°	287.7	4.5
40°-50°	98.8	1.5
50°-60°	24.1	0.4
60°-70°	6.3	0.1
70°-80°	0.7	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°	5998.2	93.5
0°-40°	6285.9	98.0
0°-60°	6408.9	99.9
0°-90°	6415.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6415.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	20630	20630	20630	20630	20630	
5°	19961	19942	19938	19980	19962	1816
15°	10938	10806	10879	10844	10824	2929
25°	2571	2668	2899	2600	2518	1230
35°	432	441	413	410	346	293
45°	113	141	141	141	114	80
55°	18	19	34	20	19	18
65°	6	6	6	6	6	6
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°	20629.9	20629.9	20629.9	20629.9	20629.9
2.5°	20493.1	20479.0	20487.1	20497.2	20501.2
5°	19961.4	19942.1	19938.1	19979.6	19962.4
7.5°	18888.8	18861.4	18819.9	18914.1	19002.2
10°	17092.0	17061.6	16971.4	17016.0	17087.9
12.5°	14439.3	14341.0	14339.0	14480.8	14461.6
15°	10937.8	10806.2	10879.1	10843.6	10824.4
17.5°	7355.4	7304.7	7402.0	7372.6	7246.0
20°	5291.2	5304.3	5489.7	5396.5	5284.1
22.5°	3861.0	3908.6	4128.4	3888.4	3800.2
25°	2570.6	2667.9	2898.8	2600.0	2518.0
27.5°	1581.1	1625.6	1859.6	1560.8	1516.2
30°	983.5	961.2	1071.6	919.7	856.9
32.5°	645.2	616.8	652.3	585.4	534.8
35°	431.5	440.6	413.2	410.2	346.4
37.5°	269.4	309.9	273.5	291.7	222.8
40°	174.2	224.9	193.5	213.7	164.1
42.5°	142.8	173.2	159.0	169.1	145.9
45°	113.4	140.8	140.8	140.8	114.5
47.5°	62.8	94.2	120.5	96.2	66.8
50°	35.4	47.6	93.2	49.6	37.5
52.5°	24.3	27.3	63.8	28.4	25.3
55°	18.2	19.2	34.4	20.3	19.2
57.5°	14.2	15.2	18.2	15.2	14.2
60°	11.1	11.1	13.2	12.2	11.1
62.5°	8.1	8.1	9.1	8.1	8.1
65°	6.1	6.1	6.1	6.1	6.1
67.5°	3.0	4.1	4.1	4.1	4.1
70°	3.0	2.0	2.0	2.0	3.0
72.5°	2.0	1.0	1.0	1.0	1.0
75°	0.0	0.0	1.0	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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