

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: P755357

Luminaire Tested: LD4D90BD010-EU4DR3070959030-4LBDP1MW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P755357  
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-EU4DR3070959030-4LBDP1MW  
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7487.3 lumens  
Efficiency: N/A  
Efficacy: 75.7 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

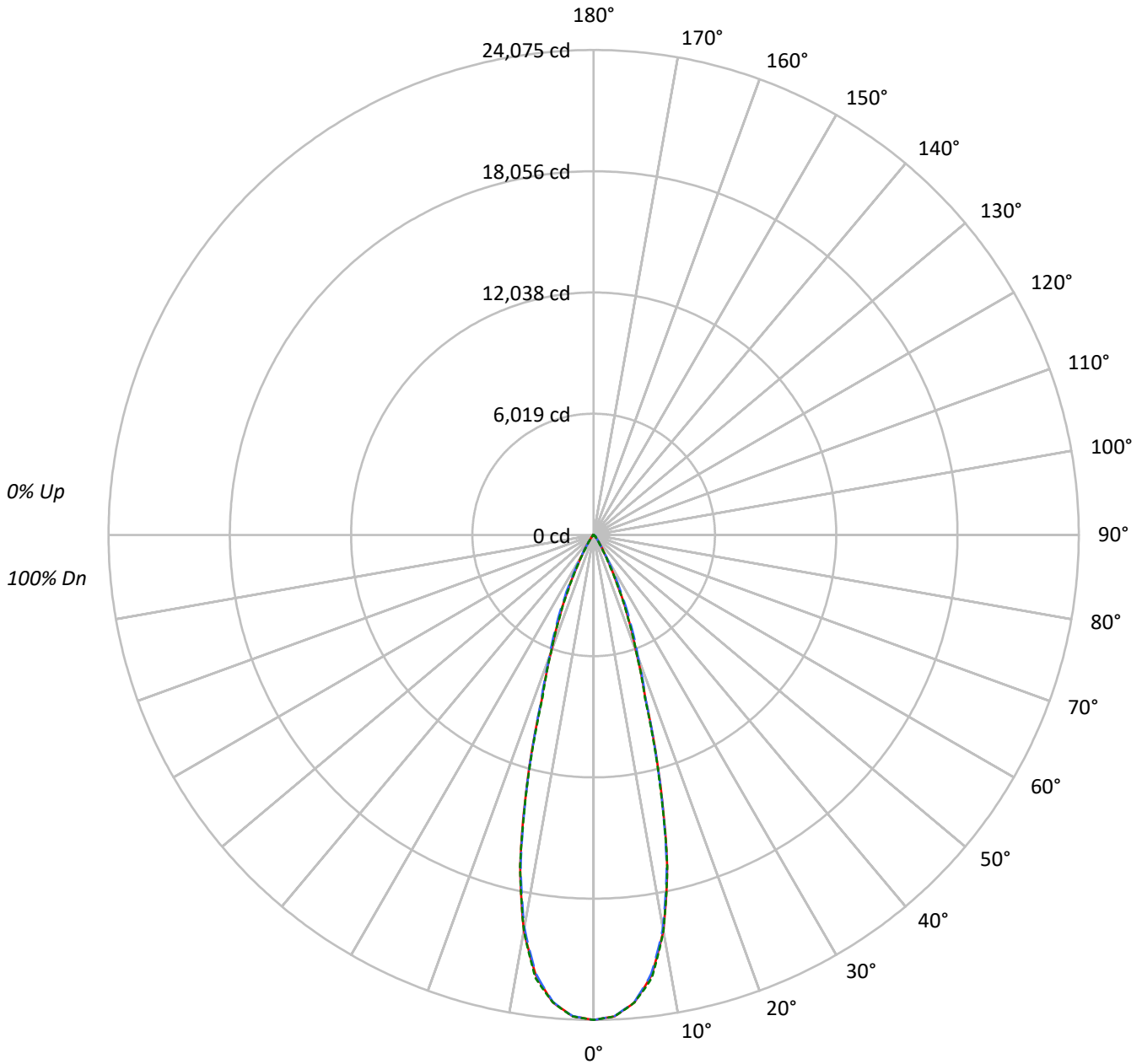
Input Watts (W): 98.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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	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°	1842805	1842805	1842805
5°	1789905	1787815	1789997
10°	1550326	1539398	1549960
15°	1011512	1006076	1001020
20°	502981	521846	502305
25°	253369	285707	248175
30°	101439	110534	88385
35°	47048	45067	37769
40°	20314	22562	19135
45°	14332	17785	14462
50°	4930	12944	5204
55°	2842	5365	3003
60°	1990	2358	1990
65°	1286	1286	1286
70°	783	537	783
75°	0	355	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 17785 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2117.1	28.3
10°-20°	3409.5	45.5
20°-30°	1473.4	19.7
30°-40°	335.8	4.5
40°-50°	115.3	1.5
50°-60°	28.2	0.4
60°-70°	7.3	0.1
70°-80°	0.8	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°	7000.0	93.5
0°-40°	7335.8	98.0
0°-60°	7479.2	99.9
0°-90°	7487.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7487.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	24075	24075	24075	24075	24075	
5°	23295	23273	23268	23316	23296	2119
15°	12765	12611	12696	12655	12632	3418
25°	3000	3113	3383	3034	2938	1436
35°	504	514	482	479	404	342
45°	132	164	164	164	134	94
55°	21	22	40	24	22	21
65°	7	7	7	7	7	7
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°	24075.3	24075.3	24075.3	24075.3	24075.3
2.5°	23915.7	23899.2	23908.7	23920.5	23925.2
5°	23295.2	23272.7	23268.0	23316.5	23296.4
7.5°	22043.4	22011.5	21963.1	22073.0	22175.8
10°	19946.5	19911.1	19805.9	19857.9	19941.8
12.5°	16850.8	16736.2	16733.8	16899.3	16876.8
15°	12764.6	12610.9	12696.0	12654.7	12632.2
17.5°	8583.8	8524.7	8638.2	8603.9	8456.1
20°	6174.9	6190.2	6406.5	6297.8	6166.6
22.5°	4505.8	4561.4	4817.9	4537.8	4434.9
25°	3000.0	3113.4	3382.9	3034.2	2938.5
27.5°	1845.1	1897.1	2170.2	1821.5	1769.5
30°	1147.7	1121.7	1250.6	1073.3	1000.0
32.5°	752.9	719.8	761.2	683.2	624.1
35°	503.5	514.2	482.3	478.7	404.2
37.5°	314.4	361.7	319.1	340.4	260.0
40°	203.3	262.4	225.8	249.4	191.5
42.5°	166.7	202.1	185.6	197.4	170.2
45°	132.4	164.3	164.3	164.3	133.6
47.5°	73.3	109.9	140.7	112.3	78.0
50°	41.4	55.6	108.7	57.9	43.7
52.5°	28.4	31.9	74.5	33.1	29.6
55°	21.3	22.5	40.2	23.6	22.5
57.5°	16.5	17.7	21.3	17.7	16.5
60°	13.0	13.0	15.4	14.2	13.0
62.5°	9.5	9.5	10.6	9.5	9.5
65°	7.1	7.1	7.1	7.1	7.1
67.5°	3.5	4.7	4.7	4.7	4.7
70°	3.5	2.4	2.4	2.4	3.5
72.5°	2.4	1.2	1.2	1.2	1.2
75°	0.0	0.0	1.2	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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