

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: P754590

Luminaire Tested: LD4D85BD010-EU4DR3070959035-4LBDP1MW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P754590  
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: LD4D85BD010-EU4DR3070959035-4LBDP1MW  
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7132.1 lumens  
Efficiency: N/A  
Efficacy: 81.3 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

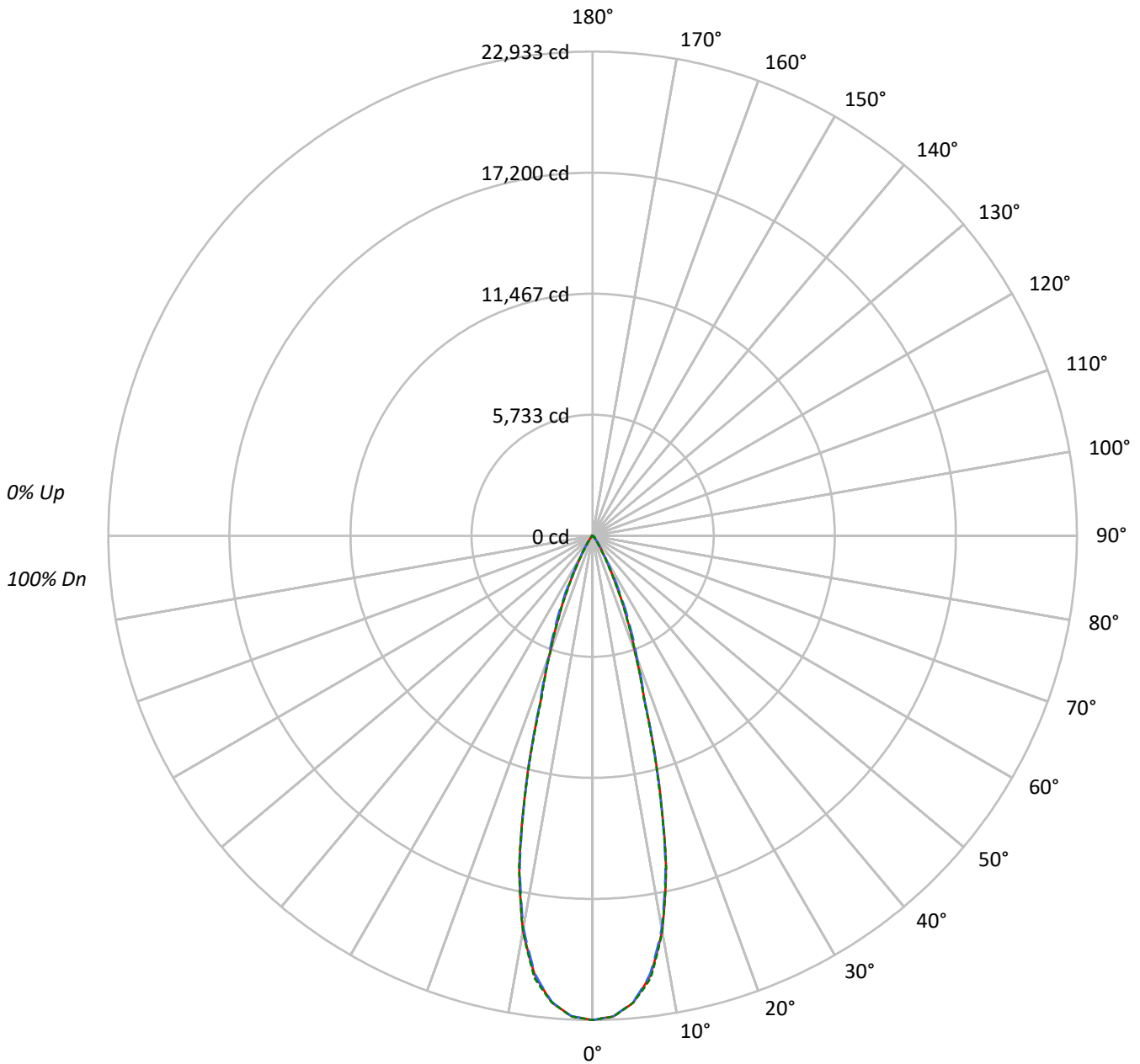
Input Watts (W): 87.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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	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	100	100	100	100													
	1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96	96	96	96	96	96													
	2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92	92	92	92	92	92													
	3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89	89	89	89	89	89													
	4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85	85	85	85	85	85													
	5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82	82	82	82	82	82													
	6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79	79	79	79	79	79													
	7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77	77	77	77	77	77													
	8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74	74	74	74	74	74													
	9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72	72	72	72	72	72													
	10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69	69	69	69	69	69													

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1755377	1755377	1755377
5°	1704986	1702996	1705078
10°	1476775	1466368	1476426
15°	963522	958348	953530
20°	479115	497092	478471
25°	241342	272152	236402
30°	96631	105284	84186
35°	44824	42927	35985
40°	19355	21493	18225
45°	13650	16941	13769
50°	4692	12337	4966
55°	2709	5111	2856
60°	1898	2235	1898
65°	1232	1232	1232
70°	761	515	761
75°	0	325	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 16941 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2016.6	28.3
10°-20°	3247.8	45.5
20°-30°	1403.5	19.7
30°-40°	319.9	4.5
40°-50°	109.8	1.5
50°-60°	26.8	0.4
60°-70°	7.0	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°	6667.9	93.5
0°-40°	6987.7	98.0
0°-60°	7124.4	99.9
0°-90°	7132.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7132.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	22933	22933	22933	22933	22933	
5°	22190	22169	22164	22210	22191	2018
15°	12159	12013	12094	12054	12033	3256
25°	2858	2966	3222	2890	2799	1368
35°	480	490	459	456	385	325
45°	126	156	156	156	127	90
55°	20	21	38	22	21	20
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°	22933.1	22933.1	22933.1	22933.1	22933.1
2.5°	22781.1	22765.4	22774.4	22785.6	22790.2
5°	22190.0	22168.6	22164.1	22210.3	22191.2
7.5°	20997.7	20967.3	20921.1	21025.8	21123.8
10°	19000.2	18966.5	18866.3	18915.8	18995.7
12.5°	16051.4	15942.2	15939.9	16097.6	16076.2
15°	12159.0	12012.7	12093.7	12054.3	12032.9
17.5°	8176.6	8120.3	8228.4	8195.7	8055.0
20°	5881.9	5896.5	6102.6	5999.0	5874.0
22.5°	4292.1	4345.0	4589.3	4322.5	4224.5
25°	2857.6	2965.7	3222.4	2890.3	2799.1
27.5°	1757.6	1807.1	2067.2	1735.1	1685.5
30°	1093.3	1068.5	1191.2	1022.4	952.5
32.5°	717.2	685.7	725.1	650.8	594.5
35°	479.7	489.8	459.4	456.0	385.1
37.5°	299.5	344.5	304.0	324.3	247.7
40°	193.7	250.0	215.1	237.6	182.4
42.5°	158.8	192.5	176.8	188.0	162.1
45°	126.1	156.5	156.5	156.5	127.2
47.5°	69.8	104.7	134.0	107.0	74.3
50°	39.4	52.9	103.6	55.2	41.7
52.5°	27.0	30.4	70.9	31.5	28.1
55°	20.3	21.4	38.3	22.5	21.4
57.5°	15.8	16.9	20.3	16.9	15.8
60°	12.4	12.4	14.6	13.5	12.4
62.5°	9.0	9.0	10.1	9.0	9.0
65°	6.8	6.8	6.8	6.8	6.8
67.5°	3.4	4.5	4.5	4.5	4.5
70°	3.4	2.3	2.3	2.3	3.4
72.5°	2.3	1.1	1.1	1.1	1.1
75°	0.0	0.0	1.1	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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