

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: P754555

Luminaire Tested: LD4D85BD010-EU4DR3070959024-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P754555
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-EU4DR3070959024-4LBS1MW
Description: 4 INCH ROUND SHALLOW 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: 6783.5 lumens
Efficiency: N/A
Efficacy: 77.3 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_{in}): 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

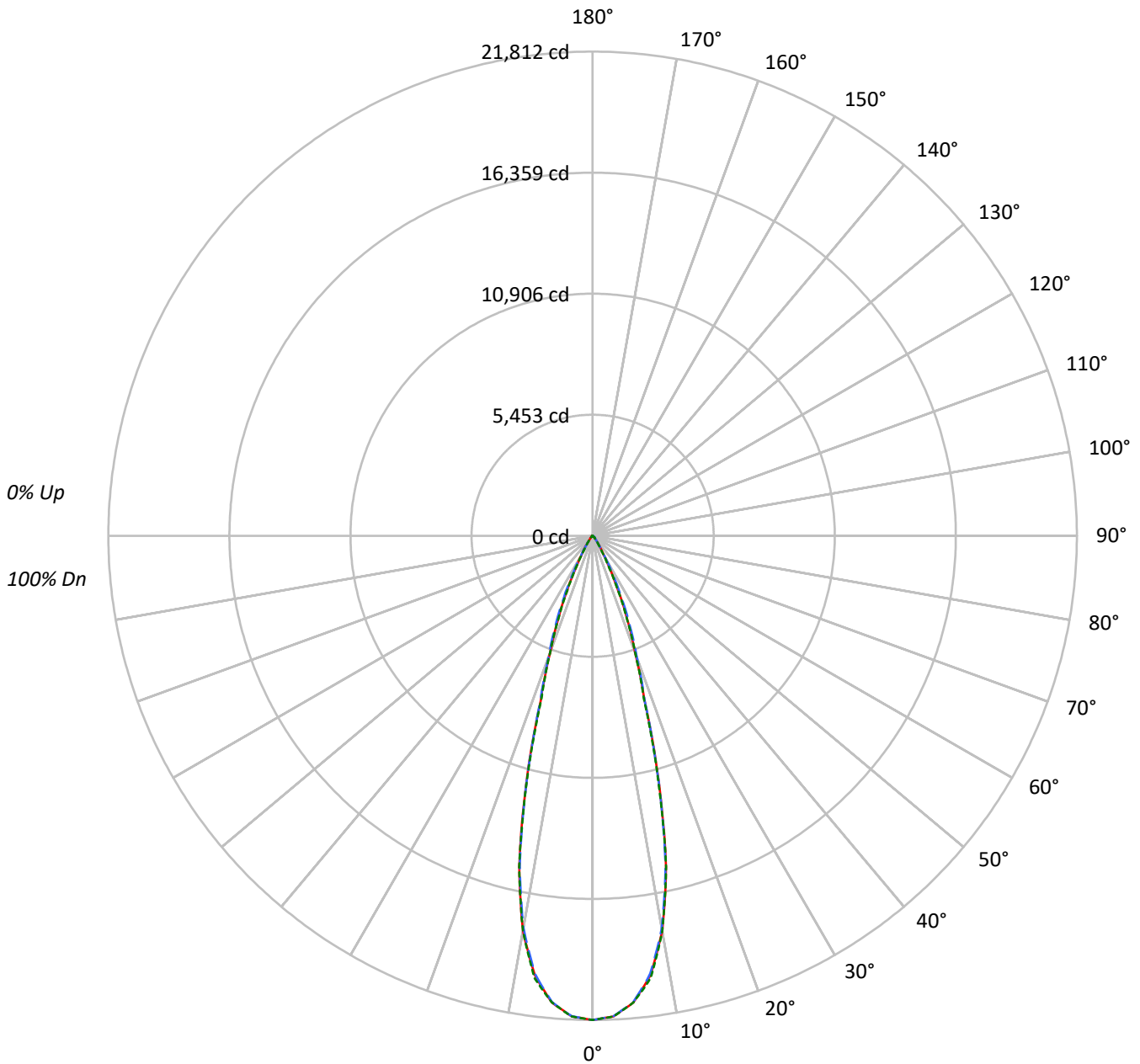


Downlight

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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°	1669572	1669572	1669572
5°	1621642	1619752	1621727
10°	1404585	1394683	1404259
15°	916428	911499	906919
20°	455696	472794	455085
25°	229544	258850	224848
30°	91902	100140	80077
35°	42628	40825	34219
40°	18405	20434	17336
45°	12979	16118	13098
50°	4466	11729	4716
55°	2576	4858	2709
60°	1806	2128	1806
65°	1159	1159	1159
70°	716	470	716
75°	0	325	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 16118 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1918.0	28.3
10°-20°	3089.0	45.5
20°-30°	1334.9	19.7
30°-40°	304.2	4.5
40°-50°	104.5	1.5
50°-60°	25.5	0.4
60°-70°	6.6	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°	6341.9	93.5
0°-40°	6646.2	98.0
0°-60°	6776.1	99.9
0°-90°	6783.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6783.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21812	21812	21812	21812	21812	
5°	21105	21085	21081	21125	21106	1920
15°	11565	11425	11502	11465	11445	3097
25°	2718	2821	3065	2749	2662	1301
35°	456	466	437	434	366	309
45°	120	149	149	149	121	85
55°	19	20	36	21	20	19
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°	21812.1	21812.1	21812.1	21812.1	21812.1
2.5°	21667.5	21652.5	21661.1	21671.8	21676.1
5°	21105.3	21085.0	21080.7	21124.6	21106.4
7.5°	19971.2	19942.3	19898.4	19998.0	20091.2
10°	18071.4	18039.3	17944.0	17991.1	18067.2
12.5°	15266.8	15162.9	15160.7	15310.7	15290.3
15°	11564.7	11425.4	11502.5	11465.1	11444.7
17.5°	7776.9	7723.3	7826.1	7795.1	7661.2
20°	5594.4	5608.3	5804.3	5705.8	5586.9
22.5°	4082.3	4132.6	4365.0	4111.2	4018.0
25°	2717.9	2820.8	3064.9	2749.0	2662.3
27.5°	1671.7	1718.8	1966.2	1650.3	1603.1
30°	1039.8	1016.3	1133.0	972.4	906.0
32.5°	682.2	652.2	689.7	619.0	565.4
35°	456.2	465.8	436.9	433.7	366.2
37.5°	284.9	327.7	289.1	308.4	235.6
40°	184.2	237.7	204.5	226.0	173.5
42.5°	151.0	183.1	168.1	178.8	154.2
45°	119.9	148.9	148.9	148.9	121.0
47.5°	66.4	99.6	127.4	101.7	70.7
50°	37.5	50.3	98.5	52.5	39.6
52.5°	25.7	28.9	67.5	30.0	26.8
55°	19.3	20.3	36.4	21.4	20.3
57.5°	15.0	16.1	19.3	16.1	15.0
60°	11.8	11.8	13.9	12.9	11.8
62.5°	8.6	8.6	9.6	8.6	8.6
65°	6.4	6.4	6.4	6.4	6.4
67.5°	3.2	4.3	4.3	4.3	4.3
70°	3.2	2.1	2.1	2.1	3.2
72.5°	2.1	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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