

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: P744801

Luminaire Tested: LD4D25D010-EU4DR1515309024-4LBDP1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P744801
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D25D010-EU4DR1515309024-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2033.5 lumens
Efficiency: N/A
Efficacy: 81.0 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.23
Luminous Opening: Vertical Cylinder (Dia: 0.35' x H: 0.35')
CIE Type: Direct

Input Watts (W): 25.1
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

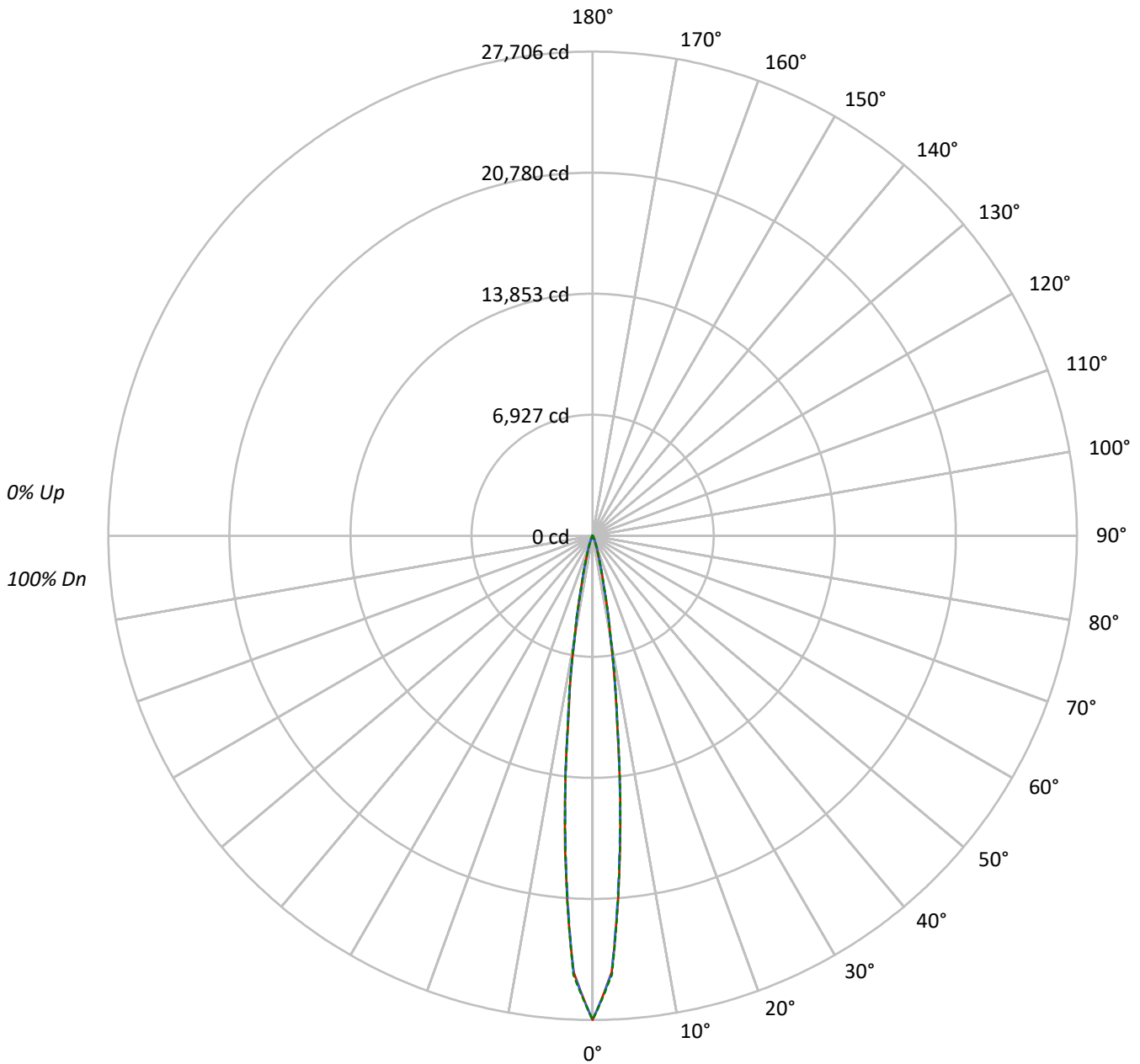


Downlight



TEST NUMBER: P744801
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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	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98						98													
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96						96													
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94						94													
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93						93													
5	106	101	98	95	104	100	97	95	98	96	94	97	95	93	96	94	92	92						92													
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90						90													
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89						89													
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88						88													
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	88	87						87													
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86						86													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3117511	3117511	3117511
5°	1831993	1808273	1822582
10°	546764	550599	559024
15°	136000	138650	134376
20°	40690	47122	41558
25°	14342	18276	14528
30°	5272	6941	5354
35°	2643	2985	2556
40°	1669	1832	1669
45°	1232	1316	1232
50°	980	980	980
55°	814	814	814
60°	660	660	660
65°	500	500	500
70°	432	432	432
75°	265	265	355
80°	181	181	181
85°	100	100	100

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1316 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1318.9	64.9
10°-20°	542.5	26.7
20°-30°	107.7	5.3
30°-40°	26.9	1.3
40°-50°	14.1	0.7
50°-60°	10.5	0.5
60°-70°	7.4	0.4
70°-80°	4.2	0.2
80°-90°	1.3	0.1
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°	1969.1	96.8
0°-40°	1996.0	98.2
0°-60°	2020.6	99.4
0°-90°	2033.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2033.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	27706	27706	27706	27706	27706	
5°	18026	17841	17793	17916	17934	1316
15°	1566	1595	1596	1568	1547	537
25°	184	209	235	208	186	97
35°	36	39	41	39	35	25
45°	18	18	19	18	18	14
55°	12	12	12	12	12	10
65°	7	7	7	7	7	7
75°	4	4	4	4	5	4
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	27706.3	27706.3	27706.3	27706.3	27706.3
2.5°	24992.2	25013.3	25021.5	25046.2	25137.7
5°	18026.3	17841.0	17792.9	17916.1	17933.7
7.5°	10678.1	10715.6	10852.9	10883.4	10773.1
10°	5859.8	5907.9	5900.9	5943.1	5991.2
12.5°	2996.8	2959.2	2947.5	2995.6	2928.7
15°	1565.8	1595.1	1596.3	1568.2	1547.1
17.5°	842.1	876.2	932.5	886.7	816.3
20°	497.3	527.8	575.9	538.4	507.9
22.5°	307.3	331.9	365.9	336.6	312.0
25°	184.1	208.8	234.6	207.6	186.5
27.5°	109.1	130.2	146.6	129.0	107.9
30°	70.4	82.1	92.7	80.9	71.5
32.5°	49.3	54.0	58.6	54.0	49.3
35°	36.4	38.7	41.1	38.7	35.2
37.5°	28.1	30.5	31.7	29.3	27.0
40°	23.5	24.6	25.8	24.6	23.5
42.5°	19.9	21.1	21.1	21.1	19.9
45°	17.6	17.6	18.8	17.6	17.6
47.5°	15.2	15.2	16.4	15.2	15.2
50°	14.1	14.1	14.1	14.1	14.1
52.5°	12.9	12.9	12.9	12.9	12.9
55°	11.7	11.7	11.7	11.7	11.7
57.5°	10.6	10.6	10.6	10.6	10.6
60°	9.4	9.4	9.4	9.4	9.4
62.5°	8.2	8.2	8.2	8.2	8.2
65°	7.0	7.0	7.0	7.0	7.0
67.5°	7.0	7.0	7.0	7.0	7.0
70°	5.9	5.9	5.9	5.9	5.9
72.5°	4.7	4.7	4.7	4.7	4.7
75°	3.5	3.5	3.5	3.5	4.7
77.5°	3.5	3.5	3.5	3.5	3.5
80°	2.3	2.3	2.3	2.3	2.3
82.5°	2.3	2.3	2.3	2.3	2.3
85°	1.2	1.2	1.2	1.2	1.2
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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