

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: P744856

Luminaire Tested: LD4D25D010-EU4DR1515309040-4LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P744856
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-EU4DR1515309040-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2885.6 lumens
Efficiency: N/A
Efficacy: 115.0 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 (Ain): 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



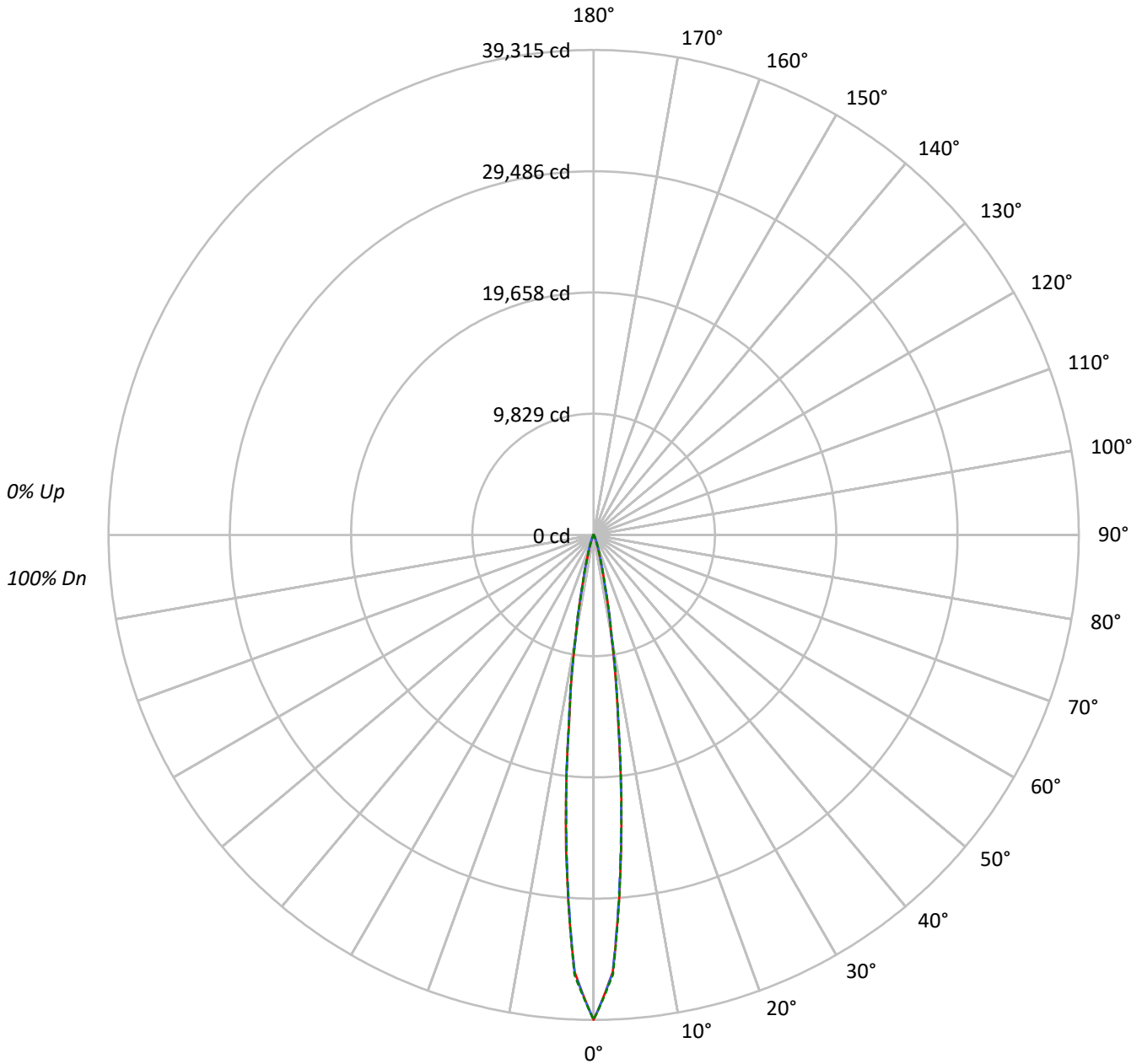
Downlight



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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	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°	4423733	4423733	4423733
5°	2599596	2565937	2586232
10°	775862	781292	793254
15°	192987	196748	190677
20°	57742	66866	58970
25°	20355	25933	20613
30°	7481	9847	7600
35°	3747	4234	3624
40°	2365	2599	2365
45°	1750	1862	1750
50°	1391	1391	1391
55°	1155	1155	1155
60°	934	934	934
65°	714	714	714
70°	607	607	607
75°	378	378	506
80°	260	260	260
85°	141	141	141

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1862 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1871.5	64.9
10°-20°	769.8	26.7
20°-30°	152.9	5.3
30°-40°	38.2	1.3
40°-50°	20.1	0.7
50°-60°	14.9	0.5
60°-70°	10.5	0.4
70°-80°	6.0	0.2
80°-90°	1.8	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°	2794.2	96.8
0°-40°	2832.3	98.2
0°-60°	2867.3	99.4
0°-90°	2885.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2885.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	39315	39315	39315	39315	39315	
5°	25579	25316	25248	25423	25448	1868
15°	2222	2264	2265	2225	2195	762
25°	261	296	333	295	265	137
35°	52	55	58	55	50	35
45°	25	25	27	25	25	20
55°	17	17	17	17	17	15
65°	10	10	10	10	10	11
75°	5	5	5	5	7	6
85°	2	2	2	2	2	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	39315.1	39315.1	39315.1	39315.1	39315.1
2.5°	35463.8	35493.8	35505.4	35540.4	35670.2
5°	25579.3	25316.3	25248.1	25422.8	25447.8
7.5°	15152.2	15205.4	15400.2	15443.4	15287.0
10°	8315.1	8383.3	8373.3	8433.2	8501.5
12.5°	4252.4	4199.1	4182.5	4250.7	4155.9
15°	2221.9	2263.5	2265.2	2225.2	2195.3
17.5°	1195.0	1243.3	1323.2	1258.2	1158.4
20°	705.7	749.0	817.2	763.9	720.7
22.5°	436.1	471.0	519.3	477.7	442.7
25°	261.3	296.3	332.9	294.6	264.6
27.5°	154.8	184.7	208.0	183.1	153.1
30°	99.9	116.5	131.5	114.8	101.5
32.5°	69.9	76.6	83.2	76.6	69.9
35°	51.6	54.9	58.3	54.9	49.9
37.5°	39.9	43.3	44.9	41.6	38.3
40°	33.3	35.0	36.6	35.0	33.3
42.5°	28.3	30.0	30.0	30.0	28.3
45°	25.0	25.0	26.6	25.0	25.0
47.5°	21.6	21.6	23.3	21.6	21.6
50°	20.0	20.0	20.0	20.0	20.0
52.5°	18.3	18.3	18.3	18.3	18.3
55°	16.6	16.6	16.6	16.6	16.6
57.5°	15.0	15.0	15.0	15.0	15.0
60°	13.3	13.3	13.3	13.3	13.3
62.5°	11.7	11.7	11.7	11.7	11.7
65°	10.0	10.0	10.0	10.0	10.0
67.5°	10.0	10.0	10.0	10.0	10.0
70°	8.3	8.3	8.3	8.3	8.3
72.5°	6.7	6.7	6.7	6.7	6.7
75°	5.0	5.0	5.0	5.0	6.7
77.5°	5.0	5.0	5.0	5.0	5.0
80°	3.3	3.3	3.3	3.3	3.3
82.5°	3.3	3.3	3.3	3.3	3.3
85°	1.7	1.7	1.7	1.7	1.7
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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