

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: P744829

Luminaire Tested: LD4D25D010-EU4DR1515309030-4LBS1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P744829
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-EU4DR1515309030-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2533.2 lumens
Efficiency: N/A
Efficacy: 100.9 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

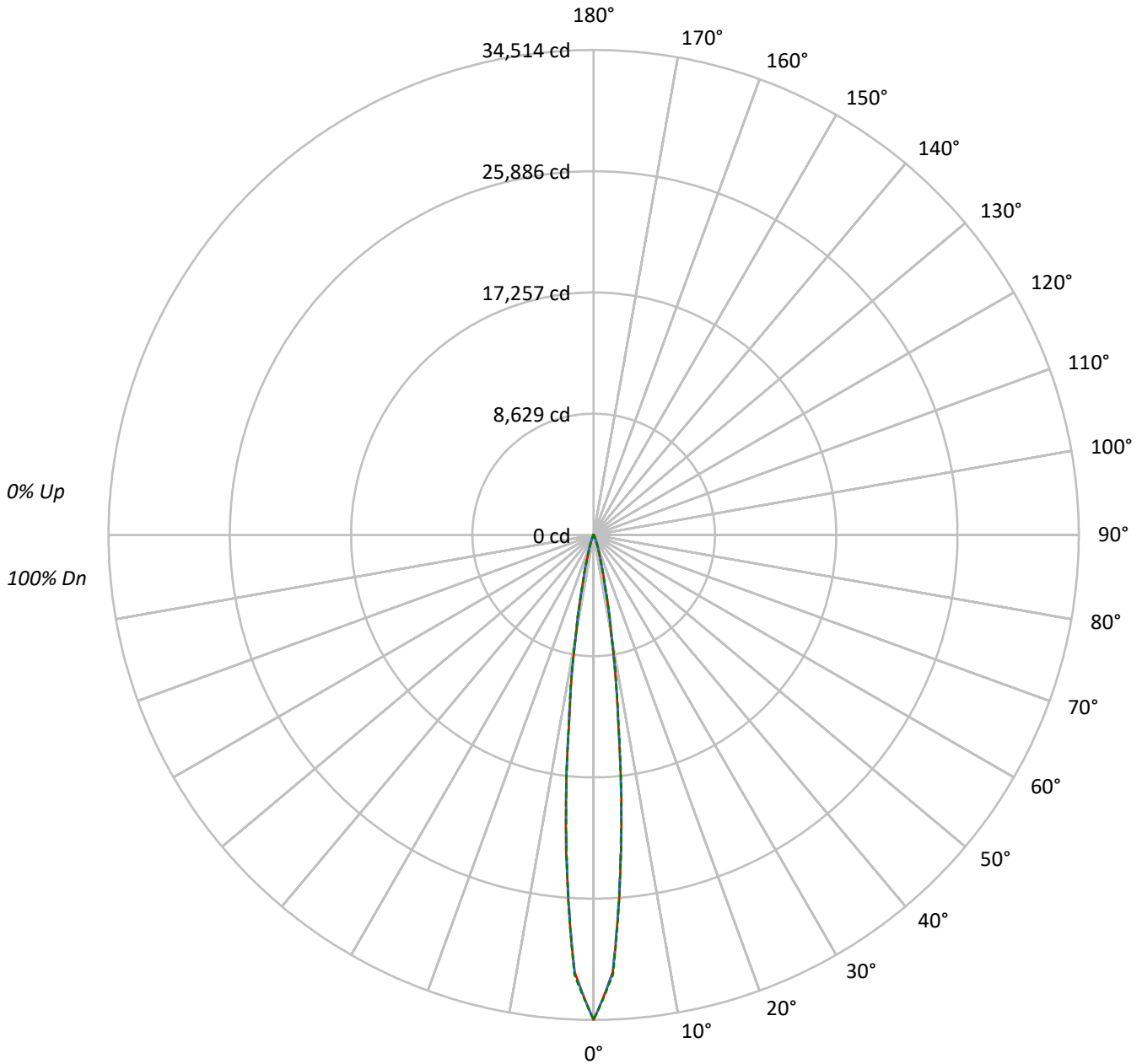


Downlight



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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°	3883502	3883502	3883502
5°	2282128	2252584	2270400
10°	681108	685885	696383
15°	169423	172715	167391
20°	50689	58700	51769
25°	17870	22763	18096
30°	6567	8641	6672
35°	3290	3711	3181
40°	2074	2280	2074
45°	1533	1638	1533
50°	1217	1217	1217
55°	1016	1016	1016
60°	821	821	821
65°	628	628	628
70°	534	534	534
75°	333	333	438
80°	229	229	229
85°	125	125	125

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1638 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1642.9	64.9
10°-20°	675.8	26.7
20°-30°	134.2	5.3
30°-40°	33.5	1.3
40°-50°	17.6	0.7
50°-60°	13.0	0.5
60°-70°	9.2	0.4
70°-80°	5.2	0.2
80°-90°	1.6	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°	2452.9	96.8
0°-40°	2486.4	98.2
0°-60°	2517.1	99.4
0°-90°	2533.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2533.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	34514	34514	34514	34514	34514	
5°	22456	22225	22165	22318	22340	1640
15°	1951	1987	1988	1954	1927	669
25°	229	260	292	259	232	120
35°	45	48	51	48	44	31
45°	22	22	23	22	22	17
55°	15	15	15	15	15	13
65°	9	9	9	9	9	9
75°	4	4	4	4	6	5
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°	34513.9	34513.9	34513.9	34513.9	34513.9
2.5°	31133.0	31159.3	31169.5	31200.2	31314.1
5°	22455.5	22224.7	22164.8	22318.2	22340.1
7.5°	13301.8	13348.5	13519.5	13557.5	13420.1
10°	7299.6	7359.5	7350.8	7403.4	7463.3
12.5°	3733.1	3686.3	3671.7	3731.6	3648.3
15°	1950.6	1987.1	1988.5	1953.5	1927.2
17.5°	1049.1	1091.4	1161.6	1104.6	1016.9
20°	619.5	657.5	717.4	670.6	632.7
22.5°	382.8	413.5	455.9	419.3	388.7
25°	229.4	260.1	292.2	258.6	232.3
27.5°	135.9	162.2	182.6	160.7	134.4
30°	87.7	102.3	115.4	100.8	89.1
32.5°	61.4	67.2	73.1	67.2	61.4
35°	45.3	48.2	51.1	48.2	43.8
37.5°	35.1	38.0	39.4	36.5	33.6
40°	29.2	30.7	32.1	30.7	29.2
42.5°	24.8	26.3	26.3	26.3	24.8
45°	21.9	21.9	23.4	21.9	21.9
47.5°	19.0	19.0	20.5	19.0	19.0
50°	17.5	17.5	17.5	17.5	17.5
52.5°	16.1	16.1	16.1	16.1	16.1
55°	14.6	14.6	14.6	14.6	14.6
57.5°	13.1	13.1	13.1	13.1	13.1
60°	11.7	11.7	11.7	11.7	11.7
62.5°	10.2	10.2	10.2	10.2	10.2
65°	8.8	8.8	8.8	8.8	8.8
67.5°	8.8	8.8	8.8	8.8	8.8
70°	7.3	7.3	7.3	7.3	7.3
72.5°	5.8	5.8	5.8	5.8	5.8
75°	4.4	4.4	4.4	4.4	5.8
77.5°	4.4	4.4	4.4	4.4	4.4
80°	2.9	2.9	2.9	2.9	2.9
82.5°	2.9	2.9	2.9	2.9	2.9
85°	1.5	1.5	1.5	1.5	1.5
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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