

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: P744859

Luminaire Tested: LD4D25D010-EU4DR1515309040-4LBSQW1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P744859
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-EU4DR1515309040-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2371.4 lumens
Efficiency: N/A
Efficacy: 94.5 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



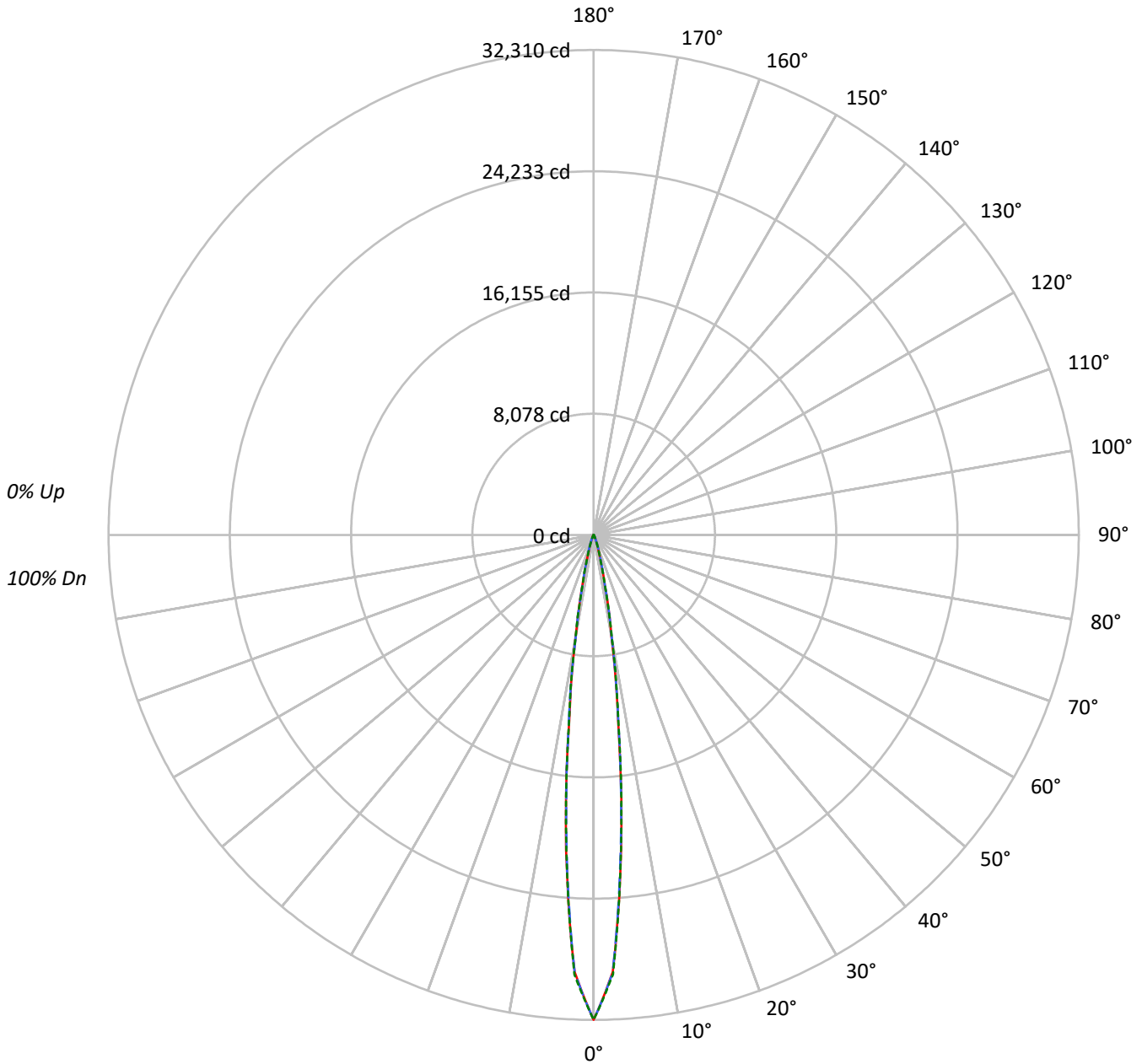
Downlight



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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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98																			
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96																			
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94																			
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93																			
5	106	101	98	95	104	100	97	95	98	96	94	97	95	93	96	94	92	92																			
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90																			
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89																			
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88																			
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	88	87																			
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3635497	3635497	3635497
5°	2136392	2108729	2125406
10°	637617	642078	651903
15°	158601	161693	156698
20°	47449	54952	48464
25°	16725	21314	16943
30°	6148	8095	6245
35°	3079	3478	2977
40°	1946	2138	1946
45°	1435	1533	1435
50°	1140	1140	1140
55°	954	954	954
60°	765	765	765
65°	585	585	585
70°	497	497	497
75°	310	310	416
80°	213	213	213
85°	116	116	116

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1533 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1538.0	64.9
10°-20°	632.6	26.7
20°-30°	125.7	5.3
30°-40°	31.4	1.3
40°-50°	16.5	0.7
50°-60°	12.2	0.5
60°-70°	8.6	0.4
70°-80°	4.9	0.2
80°-90°	1.5	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°	2296.3	96.8
0°-40°	2327.7	98.2
0°-60°	2356.3	99.4
0°-90°	2371.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2371.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	32310	32310	32310	32310	32310	
5°	21022	20805	20749	20893	20913	1535
15°	1826	1860	1862	1829	1804	626
25°	215	244	274	242	218	113
35°	42	45	48	45	41	29
45°	20	20	22	20	20	16
55°	14	14	14	14	14	12
65°	8	8	8	8	8	9
75°	4	4	4	4	6	5
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°	32309.8	32309.8	32309.8	32309.8	32309.8
2.5°	29144.8	29169.4	29179.0	29207.7	29314.4
5°	21021.5	20805.4	20749.3	20892.9	20913.4
7.5°	12452.3	12496.1	12656.1	12691.7	12563.1
10°	6833.5	6889.5	6881.3	6930.6	6986.6
12.5°	3494.7	3450.9	3437.2	3493.3	3415.4
15°	1826.0	1860.2	1861.6	1828.7	1804.1
17.5°	982.1	1021.7	1087.4	1034.0	952.0
20°	579.9	615.5	671.6	627.8	592.3
22.5°	358.4	387.1	426.7	392.6	363.8
25°	214.7	243.5	273.6	242.1	217.5
27.5°	127.2	151.8	171.0	150.5	125.8
30°	82.1	95.7	108.1	94.4	83.4
32.5°	57.4	62.9	68.4	62.9	57.4
35°	42.4	45.1	47.9	45.1	41.0
37.5°	32.8	35.6	36.9	34.2	31.5
40°	27.4	28.7	30.1	28.7	27.4
42.5°	23.3	24.6	24.6	24.6	23.3
45°	20.5	20.5	21.9	20.5	20.5
47.5°	17.8	17.8	19.1	17.8	17.8
50°	16.4	16.4	16.4	16.4	16.4
52.5°	15.0	15.0	15.0	15.0	15.0
55°	13.7	13.7	13.7	13.7	13.7
57.5°	12.3	12.3	12.3	12.3	12.3
60°	10.9	10.9	10.9	10.9	10.9
62.5°	9.6	9.6	9.6	9.6	9.6
65°	8.2	8.2	8.2	8.2	8.2
67.5°	8.2	8.2	8.2	8.2	8.2
70°	6.8	6.8	6.8	6.8	6.8
72.5°	5.5	5.5	5.5	5.5	5.5
75°	4.1	4.1	4.1	4.1	5.5
77.5°	4.1	4.1	4.1	4.1	4.1
80°	2.7	2.7	2.7	2.7	2.7
82.5°	2.7	2.7	2.7	2.7	2.7
85°	1.4	1.4	1.4	1.4	1.4
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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