

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: P742924

Luminaire Tested: LD4D15D010-EU4DR1515309035-4LBSQW1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P742924
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: LD4D15D010-EU4DR1515309035-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1300.6 lumens
Efficiency: N/A
Efficacy: 82.3 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): 15.8
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



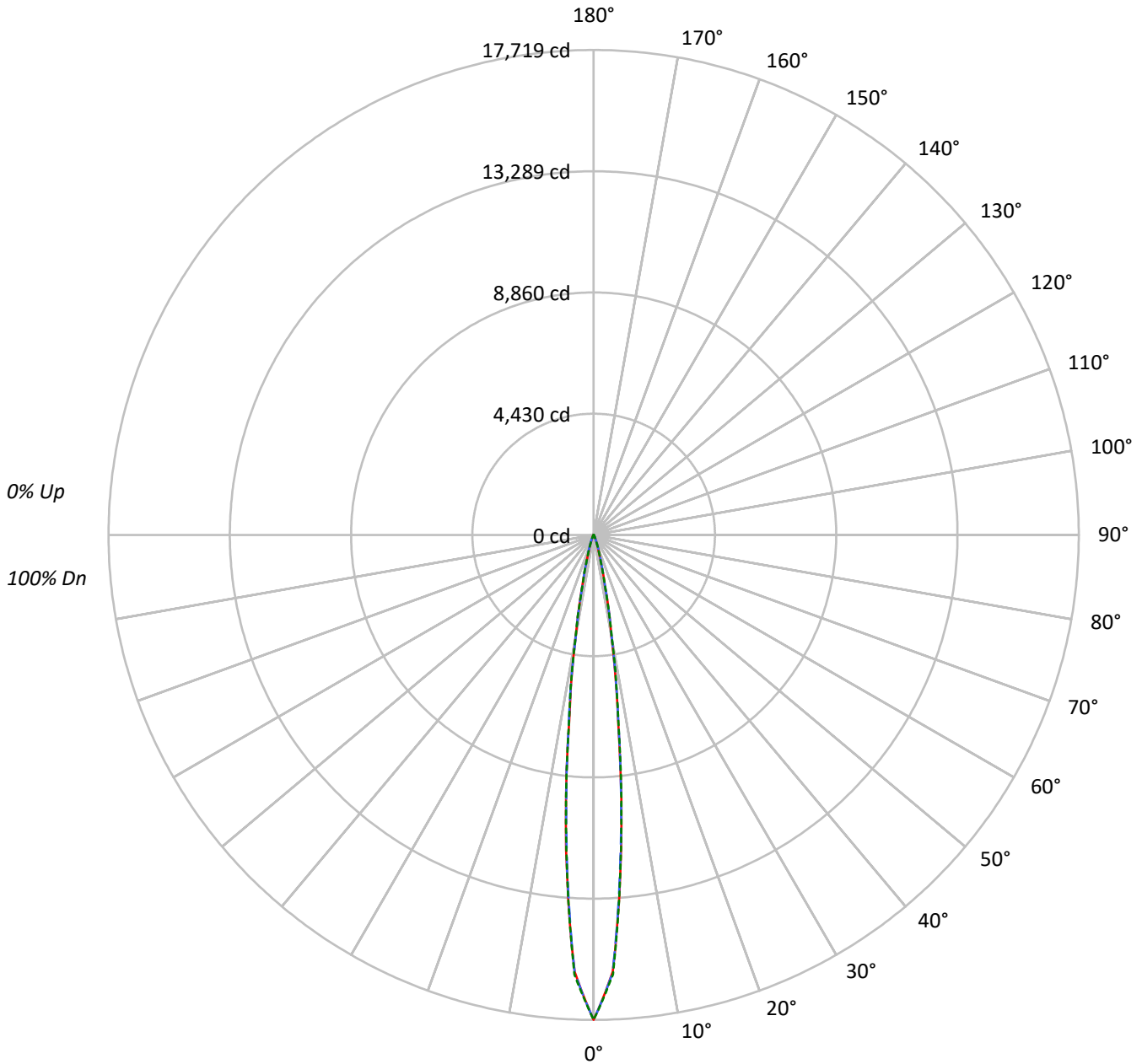
Downlight



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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	87	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°	1993718	1993718	1993718
5°	1171598	1156425	1165582
10°	349670	352115	357508
15°	86978	88672	85936
20°	26020	30135	26576
25°	9177	11685	9294
30°	3370	4440	3430
35°	1692	1910	1634
40°	1065	1172	1065
45°	791	840	791
50°	626	626	626
55°	522	522	522
60°	421	421	421
65°	321	321	321
70°	278	278	278
75°	174	174	227
80°	118	118	118
85°	66	66	66

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 840 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	843.4	64.9
10°-20°	346.9	26.7
20°-30°	68.9	5.3
30°-40°	17.2	1.3
40°-50°	9.1	0.7
50°-60°	6.7	0.5
60°-70°	4.8	0.4
70°-80°	2.7	0.2
80°-90°	0.8	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°	1259.3	96.8
0°-40°	1276.5	98.1
0°-60°	1292.3	99.4
0°-90°	1300.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1300.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17719	17719	17719	17719	17719	
5°	11528	11410	11379	11458	11469	842
15°	1001	1020	1021	1003	989	343
25°	118	134	150	133	119	62
35°	23	25	26	25	22	16
45°	11	11	12	11	11	9
55°	8	8	8	8	8	7
65°	4	4	4	4	4	5
75°	2	2	2	2	3	3
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°	17718.8	17718.8	17718.8	17718.8	17718.8
2.5°	15983.0	15996.5	16001.8	16017.5	16076.0
5°	11528.2	11409.7	11378.9	11457.7	11469.0
7.5°	6828.9	6852.9	6940.6	6960.1	6889.6
10°	3747.5	3778.2	3773.7	3800.7	3831.5
12.5°	1916.5	1892.5	1885.0	1915.7	1873.0
15°	1001.4	1020.1	1020.9	1002.9	989.4
17.5°	538.6	560.3	596.3	567.1	522.1
20°	318.0	337.5	368.3	344.3	324.8
22.5°	196.5	212.3	234.0	215.3	199.5
25°	117.8	133.5	150.0	132.8	119.3
27.5°	69.8	83.3	93.8	82.5	69.0
30°	45.0	52.5	59.3	51.8	45.8
32.5°	31.5	34.5	37.5	34.5	31.5
35°	23.3	24.8	26.3	24.8	22.5
37.5°	18.0	19.5	20.3	18.8	17.3
40°	15.0	15.8	16.5	15.8	15.0
42.5°	12.8	13.5	13.5	13.5	12.8
45°	11.3	11.3	12.0	11.3	11.3
47.5°	9.8	9.8	10.5	9.8	9.8
50°	9.0	9.0	9.0	9.0	9.0
52.5°	8.3	8.3	8.3	8.3	8.3
55°	7.5	7.5	7.5	7.5	7.5
57.5°	6.8	6.8	6.8	6.8	6.8
60°	6.0	6.0	6.0	6.0	6.0
62.5°	5.3	5.3	5.3	5.3	5.3
65°	4.5	4.5	4.5	4.5	4.5
67.5°	4.5	4.5	4.5	4.5	4.5
70°	3.8	3.8	3.8	3.8	3.8
72.5°	3.0	3.0	3.0	3.0	3.0
75°	2.3	2.3	2.3	2.3	3.0
77.5°	2.3	2.3	2.3	2.3	2.3
80°	1.5	1.5	1.5	1.5	1.5
82.5°	1.5	1.5	1.5	1.5	1.5
85°	0.8	0.8	0.8	0.8	0.8
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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