

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: P739860

Luminaire Tested: LD4D05D010-EU4DR150210IC9027-4LBSQW1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P739860
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: LD4D05D010-EU4DR150210IC9027-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 564.6 lumens
Efficiency: N/A
Efficacy: 75.3 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): 7.5
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

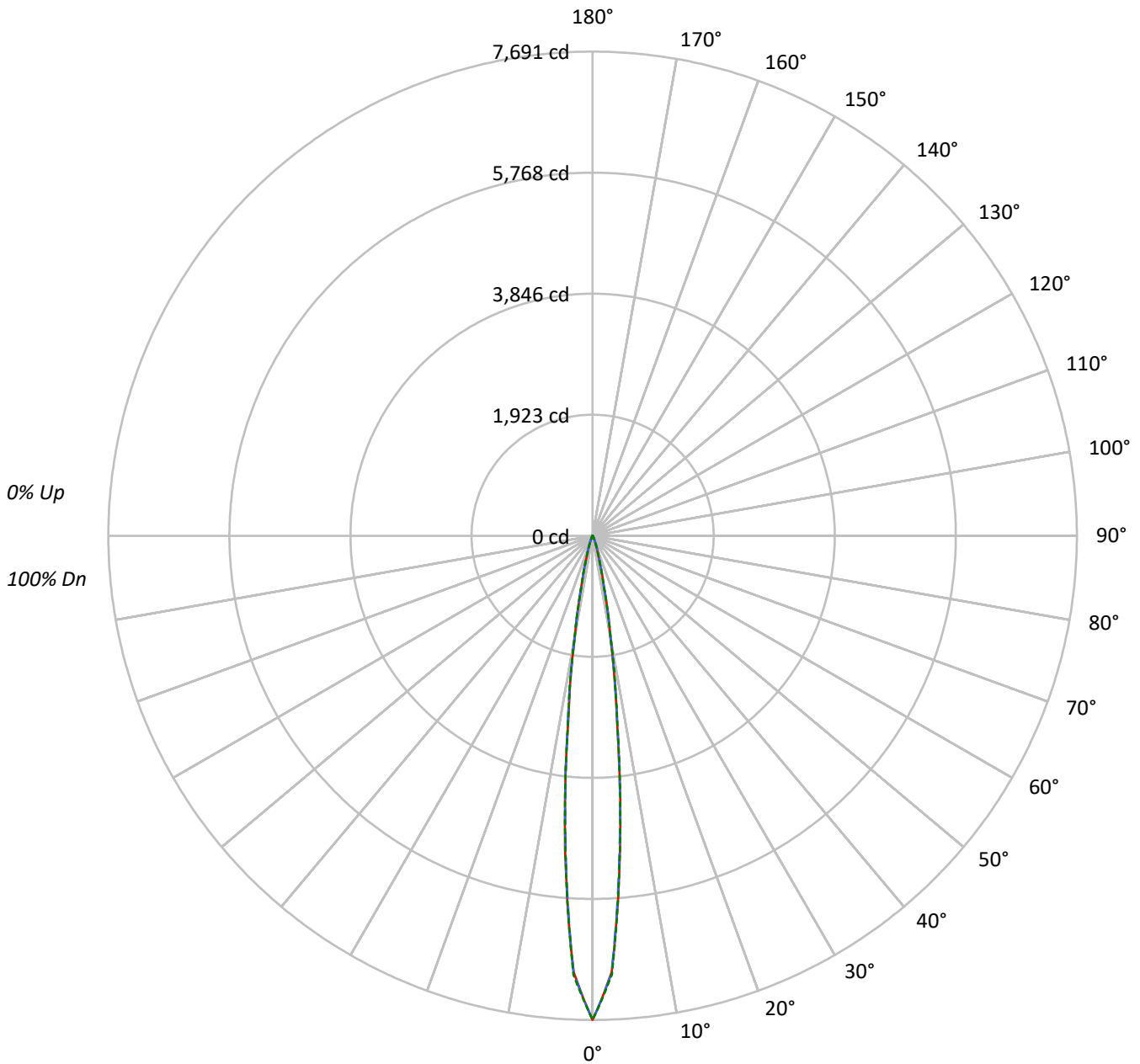


Downlight



TEST NUMBER: P739860
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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	93	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°	865436	865436	865436
5°	508571	501986	505959
10°	151783	152847	155189
15°	37757	38486	37305
20°	11300	13083	11537
25°	3981	5071	4035
30°	1460	1924	1490
35°	733	828	712
40°	462	511	462
45°	343	364	343
50°	271	271	271
55°	230	230	230
60°	183	183	183
65°	143	143	143
70°	117	117	117
75°	76	76	98
80°	55	55	55
85°	25	25	25

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 364 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.1	64.9
10°-20°	150.6	26.7
20°-30°	29.9	5.3
30°-40°	7.5	1.3
40°-50°	3.9	0.7
50°-60°	2.9	0.5
60°-70°	2.1	0.4
70°-80°	1.2	0.2
80°-90°	0.4	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°	546.6	96.8
0°-40°	554.1	98.1
0°-60°	560.9	99.4
0°-90°	564.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	564.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7691	7691	7691	7691	7691	
5°	5004	4953	4939	4974	4978	365
15°	435	443	443	435	430	149
25°	51	58	65	58	52	27
35°	10	11	11	11	10	7
45°	5	5	5	5	5	4
55°	3	3	3	3	3	3
65°	2	2	2	2	2	2
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7691.4	7691.4	7691.4	7691.4	7691.4
2.5°	6938.0	6943.8	6946.1	6952.9	6978.3
5°	5004.2	4952.8	4939.4	4973.6	4978.5
7.5°	2964.3	2974.7	3012.8	3021.3	2990.7
10°	1626.7	1640.1	1638.1	1649.8	1663.2
12.5°	831.9	821.5	818.2	831.6	813.0
15°	434.7	442.8	443.1	435.3	429.5
17.5°	233.8	243.2	258.9	246.2	226.6
20°	138.1	146.5	159.9	149.5	141.0
22.5°	85.3	92.1	101.6	93.4	86.6
25°	51.1	58.0	65.1	57.6	51.8
27.5°	30.3	36.1	40.7	35.8	30.0
30°	19.5	22.8	25.7	22.5	19.9
32.5°	13.7	15.0	16.3	15.0	13.7
35°	10.1	10.7	11.4	10.7	9.8
37.5°	7.8	8.5	8.8	8.1	7.5
40°	6.5	6.8	7.2	6.8	6.5
42.5°	5.5	5.9	5.9	5.9	5.5
45°	4.9	4.9	5.2	4.9	4.9
47.5°	4.2	4.2	4.6	4.2	4.2
50°	3.9	3.9	3.9	3.9	3.9
52.5°	3.6	3.6	3.6	3.6	3.6
55°	3.3	3.3	3.3	3.3	3.3
57.5°	2.9	2.9	2.9	2.9	2.9
60°	2.6	2.6	2.6	2.6	2.6
62.5°	2.3	2.3	2.3	2.3	2.3
65°	2.0	2.0	2.0	2.0	2.0
67.5°	2.0	2.0	2.0	2.0	2.0
70°	1.6	1.6	1.6	1.6	1.6
72.5°	1.3	1.3	1.3	1.3	1.3
75°	1.0	1.0	1.0	1.0	1.3
77.5°	1.0	1.0	1.0	1.0	1.0
80°	0.7	0.7	0.7	0.7	0.7
82.5°	0.7	0.7	0.7	0.7	0.7
85°	0.3	0.3	0.3	0.3	0.3
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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