

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: P748161

Luminaire Tested: LD4D40BD010-EU4DR7040509024-4LBSQW1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P748161
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-73)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D40BD010-EU4DR7040509024-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

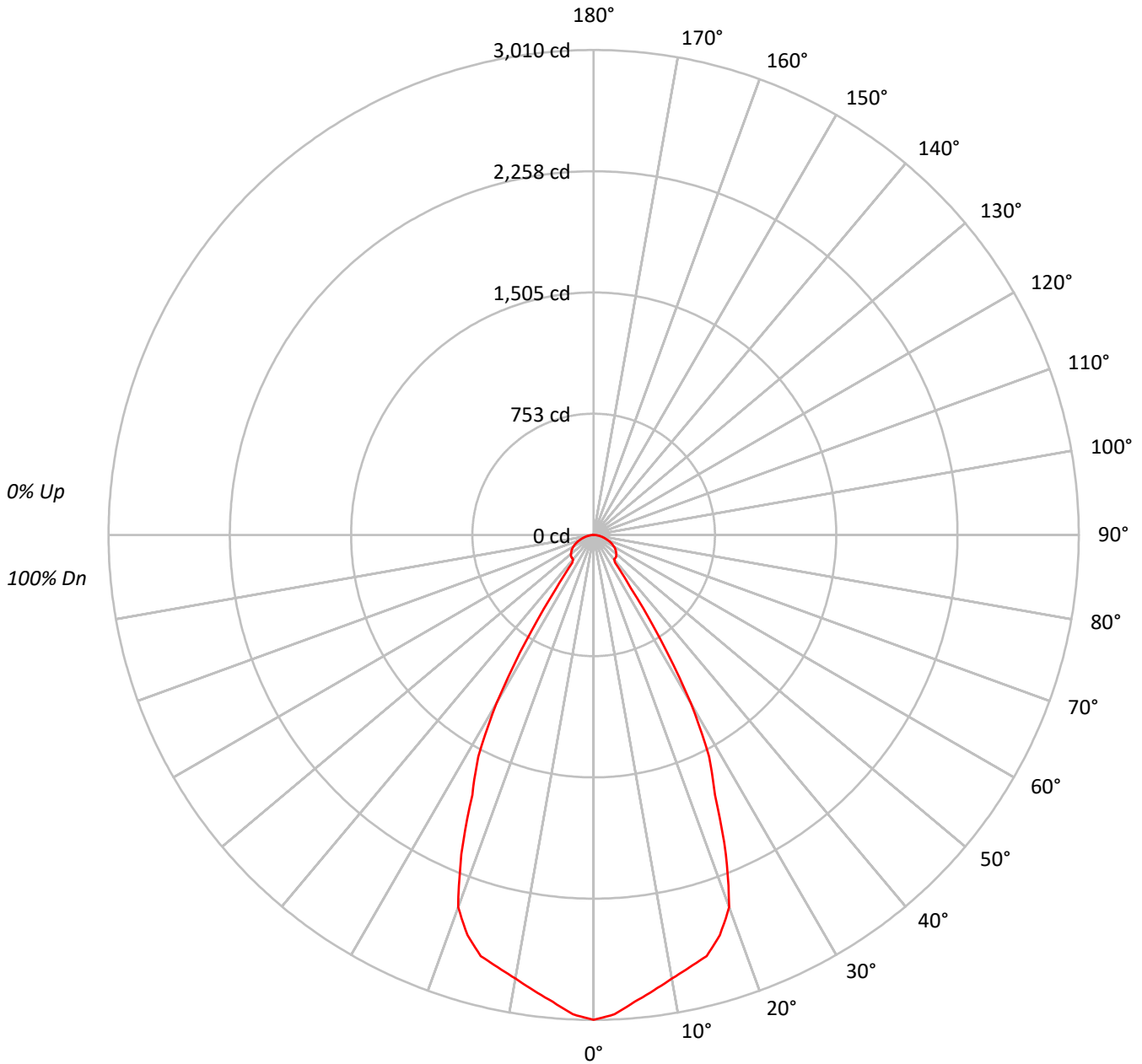
Lumens per Lamp: N/A
Luminaire Lumens: 2676.9 lumens
Efficiency: N/A
Efficacy: 76.0 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.82
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 35.2
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



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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	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91																			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83																			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76																			
4	94	86	80	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70																			
5	89	80	74	69	87	79	73	69	77	72	68	75	71	67	74	70	67	65																			
6	85	75	68	64	83	74	68	64	73	67	63	71	66	63	70	66	62	61																			
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57																			
8	77	66	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53																			
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50																			
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	328831
5°	319065
10°	310161
15°	306101
20°	285834
25°	214734
30°	151800
35°	53767
40°	28269
45°	30116
50°	31191
55°	31774
60°	31970
65°	31282
70°	29518
75°	27355
80°	24287
85°	19682

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 60°
 Luminance: 31970 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.4	10.3
10°-20°	752.6	28.1
20°-30°	828.9	31.0
30°-40°	316.7	11.8
40°-50°	149.5	5.6
50°-60°	148.7	5.6
60°-70°	119.0	4.4
70°-80°	68.4	2.6
80°-90°	18.6	0.7
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°	1855.9	69.3
0°-40°	2172.6	81.2
0°-60°	2470.9	92.3
0°-90°	2676.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2676.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3010	
5°	2909	274
15°	2706	753
25°	1781	829
35°	403	317
45°	195	150
55°	167	149
65°	121	119
75°	65	68
85°	16	19
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3009.6
2.5°	2978.1
5°	2909.1
7.5°	2851.4
10°	2795.6
12.5°	2748.5
15°	2706.1
17.5°	2603.6
20°	2458.3
22.5°	2144.7
25°	1781.2
27.5°	1550.5
30°	1203.2
32.5°	777.2
35°	403.1
37.5°	217.8
40°	198.2
42.5°	196.8
45°	194.9
47.5°	190.6
50°	183.5
52.5°	175.4
55°	166.8
57.5°	157.2
60°	146.3
62.5°	133.9
65°	121.0
67.5°	106.7
70°	92.4
72.5°	78.1
75°	64.8
77.5°	51.0
80°	38.6
82.5°	27.2
85°	15.7
87.5°	6.2
90°	0.0

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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