

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: P748031

Luminaire Tested: LD4D40BD010-EU4DR6040509030-4LBSQW1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P748031
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-57)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D40BD010-EU4DR6040509030-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

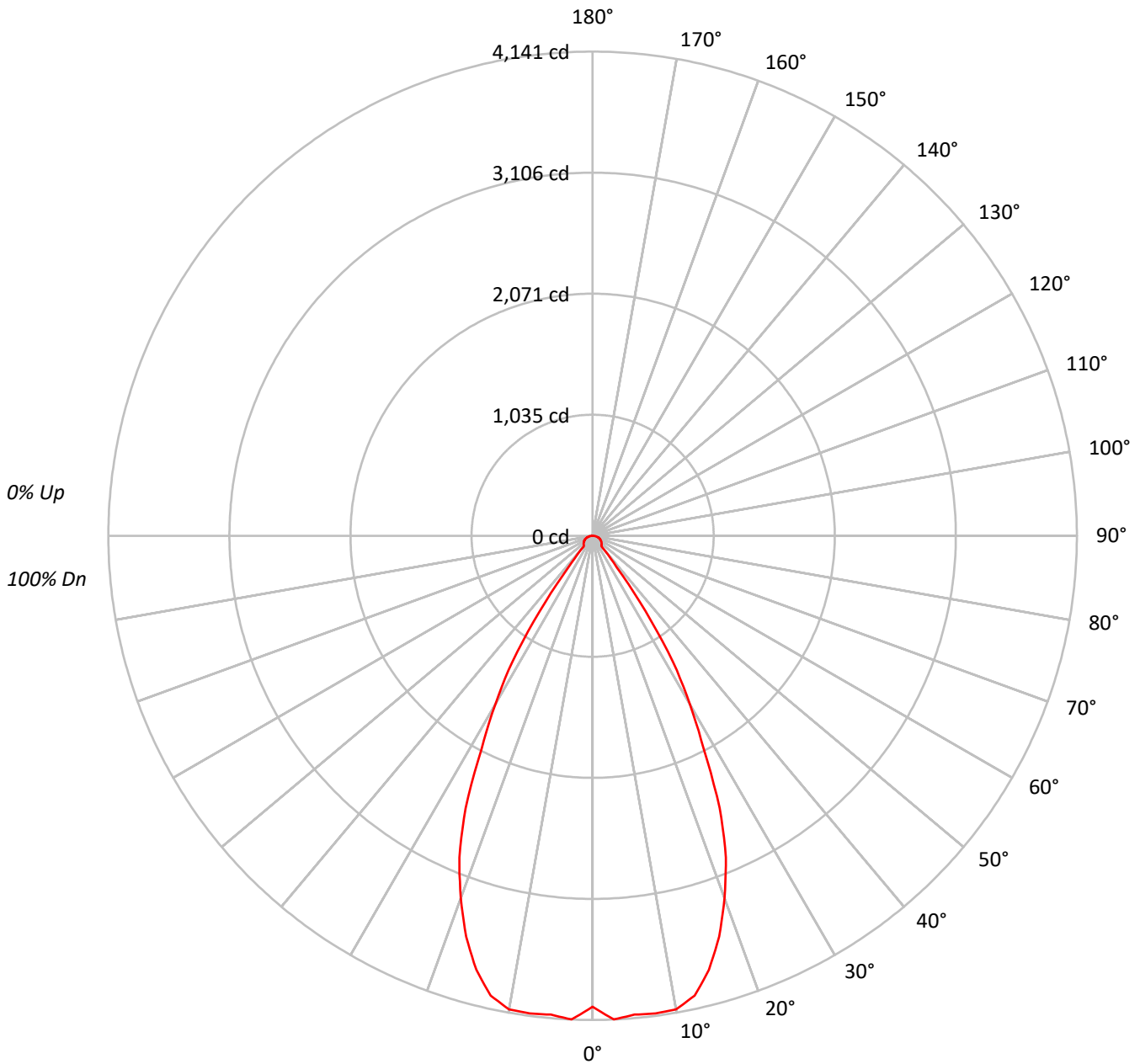
Lumens per Lamp: N/A
Luminaire Lumens: 3391.2 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.83
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

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			100																
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93			93																
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86			86																
3	102	96	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80			80																
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75			75																
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70			70																
6	88	79	73	69	87	78	73	69	77	72	68	75	71	68	74	70	67	66			66																
7	84	75	69	65	83	74	68	64	73	68	64	72	67	64	71	67	63	62			62																
8	80	71	65	61	79	70	65	61	69	64	60	68	64	60	67	63	60	59			59																
9	77	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55			55																
10	73	64	58	54	72	63	58	54	62	58	54	62	57	54	61	57	54	53			53																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	440037
5°	450865
10°	456311
15°	434690
20°	383270
25°	309997
30°	209684
35°	105079
40°	17044
45°	16688
50°	17015
55°	17277
60°	17744
65°	18149
70°	18592
75°	18828
80°	18121
85°	15169

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 18828 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	392.9	11.6
10°-20°	1063.0	31.3
20°-30°	1143.7	33.7
30°-40°	497.1	14.7
40°-50°	83.5	2.5
50°-60°	81.2	2.4
60°-70°	69.4	2.0
70°-80°	46.5	1.4
80°-90°	13.9	0.4
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°	2599.5	76.7
0°-40°	3096.7	91.3
0°-60°	3261.4	96.2
0°-90°	3391.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3391.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4027	
5°	4111	393
15°	3843	1063
25°	2571	1144
35°	788	497
45°	108	84
55°	91	81
65°	70	69
75°	45	46
85°	12	14
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4027.4
2.5°	4140.6
5°	4110.8
7.5°	4120.2
10°	4112.9
12.5°	4028.0
15°	3842.9
17.5°	3594.5
20°	3296.3
22.5°	2977.1
25°	2571.4
27.5°	2056.7
30°	1662.0
32.5°	1281.0
35°	787.8
37.5°	337.0
40°	119.5
42.5°	110.1
45°	108.0
47.5°	104.3
50°	100.1
52.5°	95.4
55°	90.7
57.5°	86.0
60°	81.2
62.5°	76.0
65°	70.2
67.5°	64.5
70°	58.2
72.5°	51.4
75°	44.6
77.5°	36.7
80°	28.8
82.5°	20.4
85°	12.1
87.5°	4.2
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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