

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: P746470

Luminaire Tested: LD4D30D010-EU4DR6020359030-4LBSQW1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P746470
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: LD4D30D010-EU4DR6020359030-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2143.1 lumens
Efficiency: N/A
Efficacy: 73.9 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): 29
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



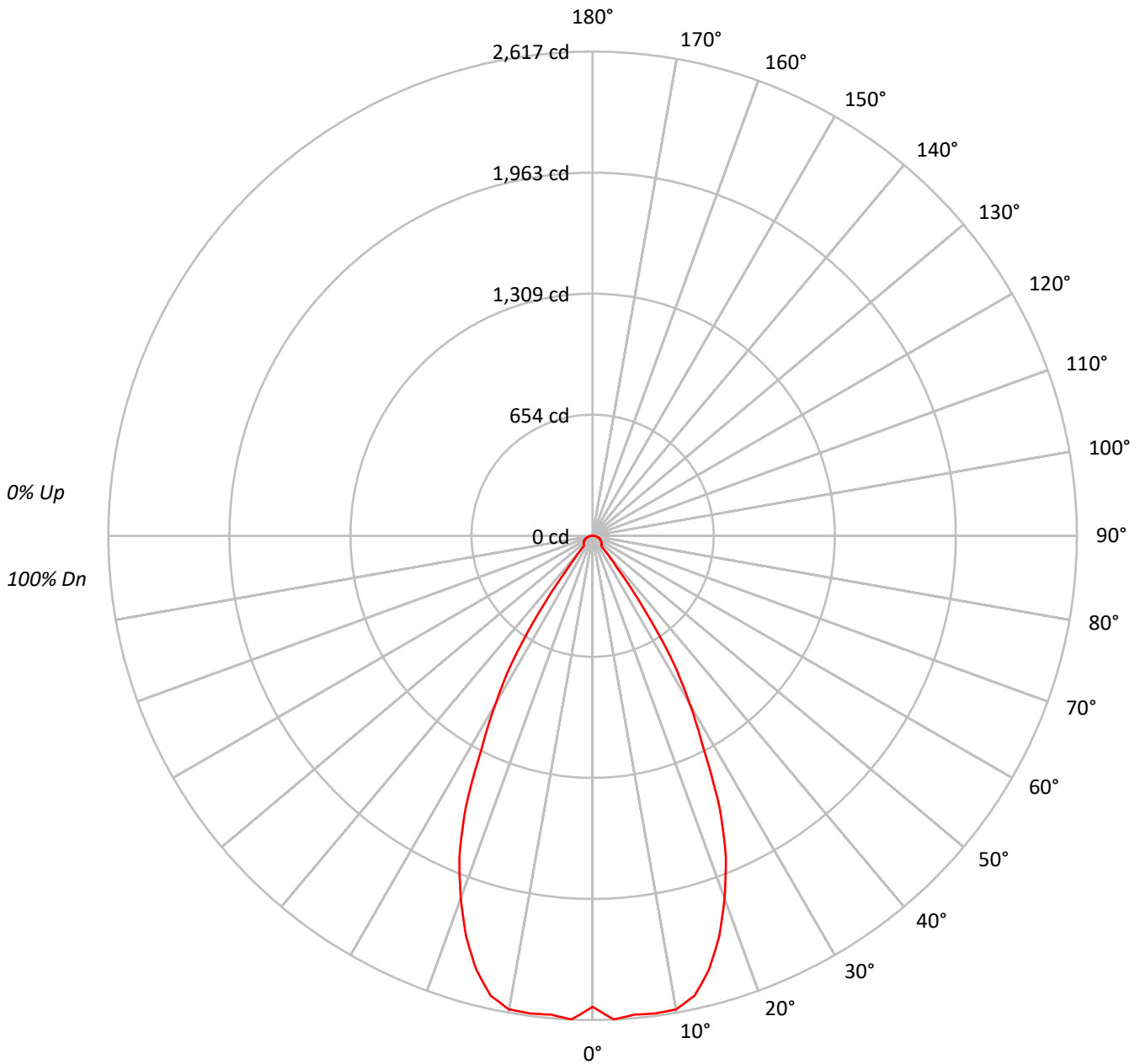
Downlight



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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				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°	278101
5°	284933
10°	288383
15°	274723
20°	242220
25°	195915
30°	132522
35°	66398
40°	10769
45°	10538
50°	10760
55°	10915
60°	11210
65°	11479
70°	11756
75°	11862
80°	11452
85°	9528

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 11862 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.3	11.6
10°-20°	671.8	31.3
20°-30°	722.8	33.7
30°-40°	314.2	14.7
40°-50°	52.8	2.5
50°-60°	51.3	2.4
60°-70°	43.9	2.0
70°-80°	29.4	1.4
80°-90°	8.8	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°	1642.9	76.7
0°-40°	1957.1	91.3
0°-60°	2061.1	96.2
0°-90°	2143.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2143.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2545	
5°	2598	248
15°	2429	672
25°	1625	723
35°	498	314
45°	68	53
55°	57	51
65°	44	44
75°	28	29
85°	8	9
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2545.3
2.5°	2616.8
5°	2597.9
7.5°	2603.9
10°	2599.3
12.5°	2545.6
15°	2428.7
17.5°	2271.7
20°	2083.2
22.5°	1881.5
25°	1625.1
27.5°	1299.8
30°	1050.4
32.5°	809.6
35°	497.8
37.5°	213.0
40°	75.5
42.5°	69.6
45°	68.2
47.5°	65.9
50°	63.3
52.5°	60.3
55°	57.3
57.5°	54.3
60°	51.3
62.5°	48.0
65°	44.4
67.5°	40.7
70°	36.8
72.5°	32.5
75°	28.1
77.5°	23.2
80°	18.2
82.5°	12.9
85°	7.6
87.5°	2.6
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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(END OF REPORT)