

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: P744602

Luminaire Tested: LD4D20D010-EU4DR6020359035-4LBCSSQMW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P744602
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-60)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D20D010-EU4DR6020359035-4LBCSSQMW
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1915.1 lumens
Efficiency: N/A
Efficacy: 82.9 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.92
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 23.1
Input Voltage (V): NR
Input Current (A_{in}): 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

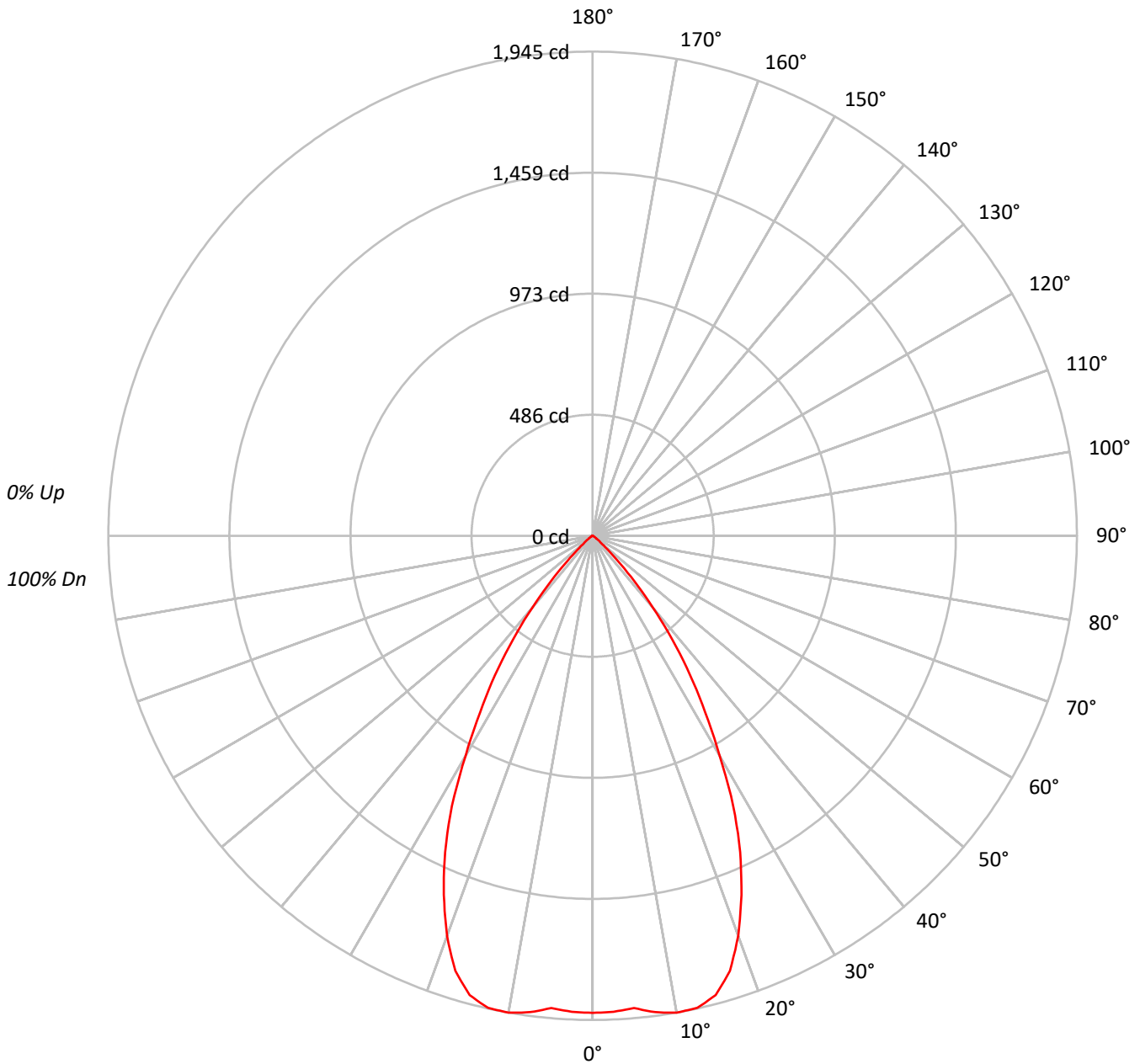


Downlight



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					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	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	100	100	100	100		
	1	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94	94	94	94	94	94		
	2	108	103	99	96	106	101	98	95	98	95	92	95	93	90	92	90	89	87	87	87	87	87	87		
	3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81	81	81	81	81	81		
	4	97	90	84	80	95	88	83	79	86	82	78	84	81	78	82	79	77	75	75	75	75	75	75		
	5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70	70	70	70	70	70		
	6	87	79	73	68	86	78	72	68	76	71	68	75	70	67	74	70	67	65	65	65	65	65	65		
	7	83	74	68	63	82	73	67	63	72	67	63	71	66	63	69	65	62	61	61	61	61	61	61		
	8	79	69	63	59	78	69	63	59	68	63	59	67	62	59	66	61	58	57	57	57	57	57	57		
	9	75	65	59	55	74	65	59	55	64	59	55	63	58	55	62	58	55	53	53	53	53	53	53		
	10	72	62	56	52	71	61	56	52	61	55	52	60	55	52	59	55	52	50	50	50	50	50	50		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	209409
5°	208893
10°	215835
15°	216050
20°	198792
25°	169092
30°	128838
35°	91114
40°	53500
45°	21586
50°	7207
55°	3467
60°	1420
65°	207
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 21586 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.7	9.6
10°-20°	529.1	27.6
20°-30°	633.3	33.1
30°-40°	423.6	22.1
40°-50°	125.6	6.6
50°-60°	18.0	0.9
60°-70°	1.7	0.1
70°-80°	0.0	0.0
80°-90°	0.0	0.0
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°	1346.2	70.3
0°-40°	1769.8	92.4
0°-60°	1913.4	99.9
0°-90°	1915.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1915.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1917	
5°	1905	184
15°	1910	529
25°	1403	633
35°	683	424
45°	140	126
55°	18	18
65°	1	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1916.6
2.5°	1914.1
5°	1904.6
7.5°	1930.4
10°	1945.4
12.5°	1942.6
15°	1910.0
17.5°	1833.1
20°	1709.7
22.5°	1561.6
25°	1402.6
27.5°	1223.4
30°	1021.2
32.5°	840.7
35°	683.1
37.5°	525.2
40°	375.1
42.5°	247.3
45°	139.7
47.5°	71.5
50°	42.4
52.5°	27.4
55°	18.2
57.5°	11.7
60°	6.5
62.5°	2.7
65°	0.8
67.5°	0.3
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
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)