

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: P744417

Luminaire Tested: LD4D20D010-EU4DR5020359024-4LBSQW1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P744417
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-44)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D20D010-EU4DR5020359024-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 50° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1544.1 lumens
Efficiency: N/A
Efficacy: 66.8 lumens/watt
Spacing Criteria (0/90/45): 0.8 / 0.8 / 0.73
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 23.1
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



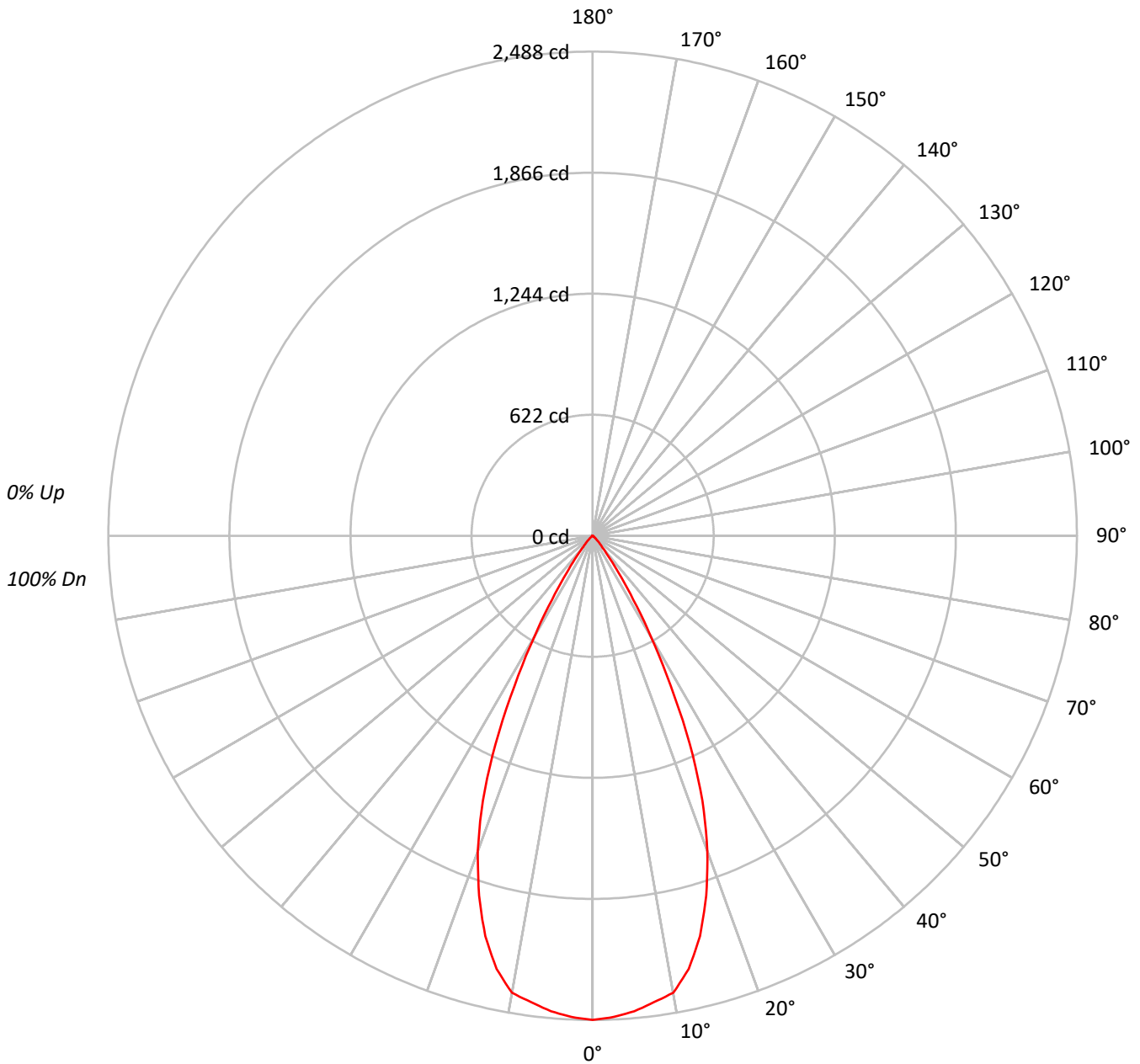
Downlight



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100	
1	114	112	109	107	112	110	108	106	106	104	102	102	101	99	98	97	97	95			95	
2	109	105	101	98	107	103	100	97	100	98	95	97	95	93	95	93	91	90			90	
3	105	99	95	91	103	98	94	90	95	92	89	93	90	88	91	88	86	85			85	
4	100	94	89	85	99	93	88	85	90	87	84	89	85	83	87	84	82	80			80	
5	96	89	84	80	95	88	83	79	86	82	79	85	81	78	83	80	77	76			76	
6	92	84	79	75	91	83	79	75	82	78	74	81	77	74	79	76	74	72			72	
7	88	80	75	71	87	79	74	71	78	74	71	77	73	70	76	73	70	69			69	
8	85	76	71	67	84	76	71	67	75	70	67	74	70	67	73	69	66	65			65	
9	81	73	68	64	80	72	67	64	71	67	64	71	67	64	70	66	63	62			62	
10	78	70	64	61	77	69	64	61	68	64	61	68	64	61	67	63	60	59			59	

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	271830
5°	268986
10°	264562
15°	240901
20°	200454
25°	142292
30°	75320
35°	30691
40°	11396
45°	5207
50°	2142
55°	1124
60°	546
65°	155
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5207 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.8	15.0
10°-20°	585.8	37.9
20°-30°	526.2	34.1
30°-40°	164.8	10.7
40°-50°	28.8	1.9
50°-60°	5.8	0.4
60°-70°	0.9	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°	1343.9	87.0
0°-40°	1508.6	97.7
0°-60°	1543.2	99.9
0°-90°	1544.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1544.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2488	
5°	2452	232
15°	2130	586
25°	1180	526
35°	230	165
45°	34	29
55°	6	6
65°	1	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2487.9
2.5°	2475.5
5°	2452.5
7.5°	2417.3
10°	2384.6
12.5°	2279.7
15°	2129.7
17.5°	1939.2
20°	1724.0
22.5°	1475.0
25°	1180.3
27.5°	867.8
30°	597.0
32.5°	388.7
35°	230.1
37.5°	132.1
40°	79.9
42.5°	52.0
45°	33.7
47.5°	20.6
50°	12.6
52.5°	8.6
55°	5.9
57.5°	4.0
60°	2.5
62.5°	1.5
65°	0.6
67.5°	0.2
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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