

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: P746010

Luminaire Tested: LD4D30D010-EU4DR3020359035-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P746010
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D30D010-EU4DR3020359035-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2462.9 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' 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

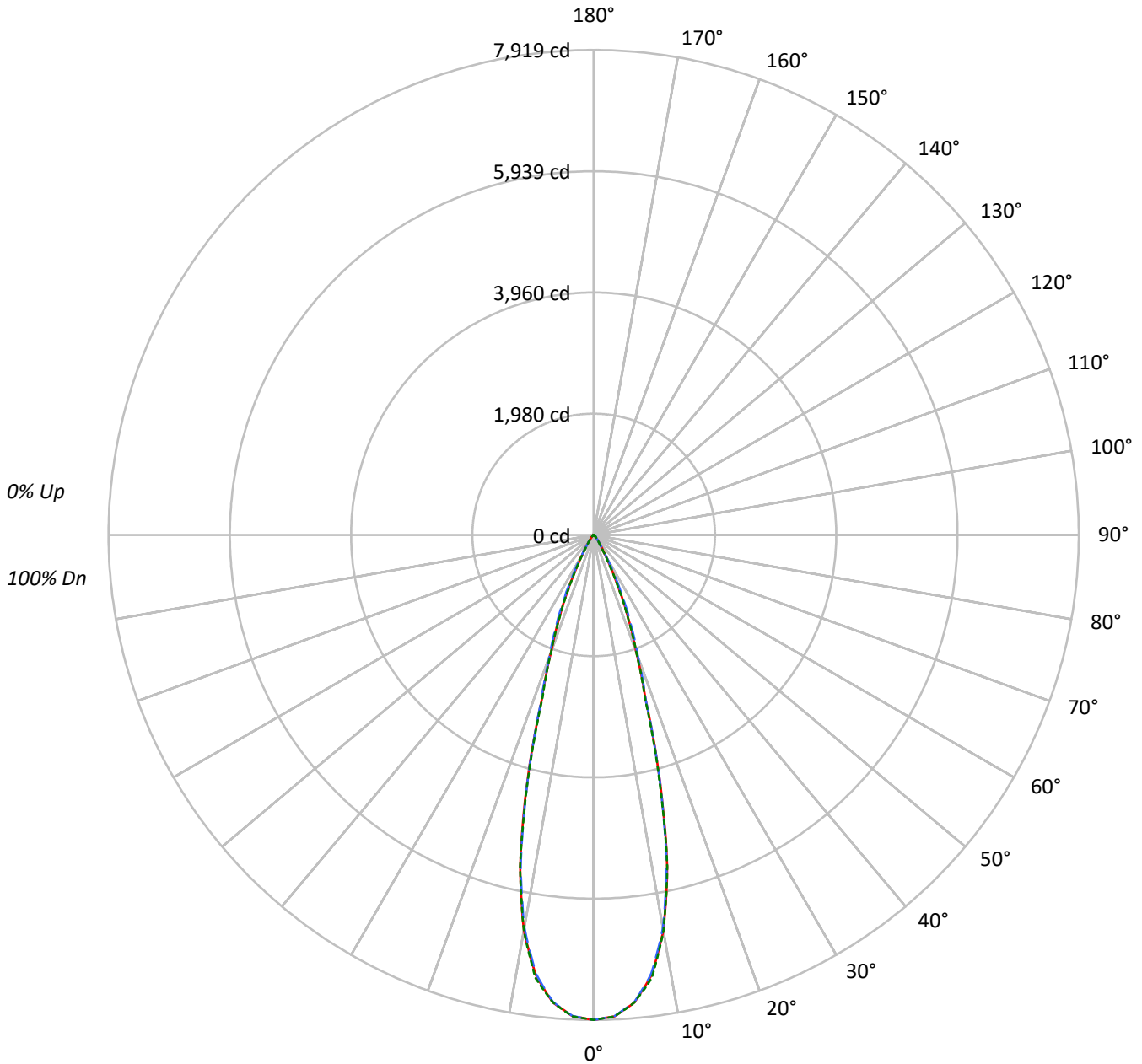


Downlight



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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																			
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96																			
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92																			
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89																			
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85																			
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82																			
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79																			
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77																			
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74																			
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72																			
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	606178	606178	606178
5°	588777	588093	588808
10°	509972	506373	509855
15°	332736	330945	329281
20°	165453	171660	165233
25°	83341	93983	81635
30°	33365	36361	29070
35°	15474	14829	12428
40°	6685	7424	6295
45°	4709	5845	4752
50°	1619	4263	1715
55°	934	1762	988
60°	658	765	658
65°	417	417	417
70°	246	179	246
75°	0	118	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 5845 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	696.4	28.3
10°-20°	1121.6	45.5
20°-30°	484.7	19.7
30°-40°	110.5	4.5
40°-50°	37.9	1.5
50°-60°	9.3	0.4
60°-70°	2.4	0.1
70°-80°	0.3	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°	2302.6	93.5
0°-40°	2413.1	98.0
0°-60°	2460.2	99.9
0°-90°	2462.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2462.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7919	7919	7919	7919	7919	
5°	7663	7655	7654	7670	7663	697
15°	4199	4148	4176	4163	4155	1124
25°	987	1024	1113	998	967	472
35°	166	169	159	157	133	112
45°	44	54	54	54	44	31
55°	7	7	13	8	7	7
65°	2	2	2	2	2	2
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7919.4	7919.4	7919.4	7919.4	7919.4
2.5°	7867.0	7861.5	7864.6	7868.5	7870.1
5°	7662.8	7655.4	7653.9	7669.8	7663.2
7.5°	7251.0	7240.6	7224.6	7260.8	7294.6
10°	6561.3	6549.6	6515.0	6532.2	6559.8
12.5°	5543.0	5505.3	5504.5	5558.9	5551.5
15°	4198.9	4148.3	4176.3	4162.7	4155.3
17.5°	2823.6	2804.1	2841.5	2830.2	2781.6
20°	2031.2	2036.2	2107.4	2071.6	2028.5
22.5°	1482.2	1500.4	1584.8	1492.7	1458.8
25°	986.8	1024.1	1112.8	998.1	966.6
27.5°	606.9	624.1	713.9	599.2	582.1
30°	377.5	369.0	411.4	353.1	328.9
32.5°	247.7	236.8	250.4	224.7	205.3
35°	165.6	169.1	158.7	157.4	133.0
37.5°	103.4	119.0	105.0	112.0	85.5
40°	66.9	86.3	74.3	82.0	63.0
42.5°	54.8	66.5	61.0	64.9	56.0
45°	43.5	54.0	54.0	54.0	43.9
47.5°	24.1	36.2	46.3	37.0	25.7
50°	13.6	18.3	35.8	19.1	14.4
52.5°	9.3	10.5	24.5	10.9	9.7
55°	7.0	7.4	13.2	7.8	7.4
57.5°	5.4	5.8	7.0	5.8	5.4
60°	4.3	4.3	5.0	4.6	4.3
62.5°	3.1	3.1	3.5	3.1	3.1
65°	2.3	2.3	2.3	2.3	2.3
67.5°	1.1	1.5	1.5	1.5	1.5
70°	1.1	0.8	0.8	0.8	1.1
72.5°	0.8	0.4	0.4	0.4	0.4
75°	0.0	0.0	0.4	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

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

Scaled Data Report



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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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