

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



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: P751448

Luminaire Tested: LD4D65D010-EU4DR3055659027-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P751448
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: LD4D65D010-EU4DR3055659027-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6311.3 lumens
Efficiency: N/A
Efficacy: 86.7 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

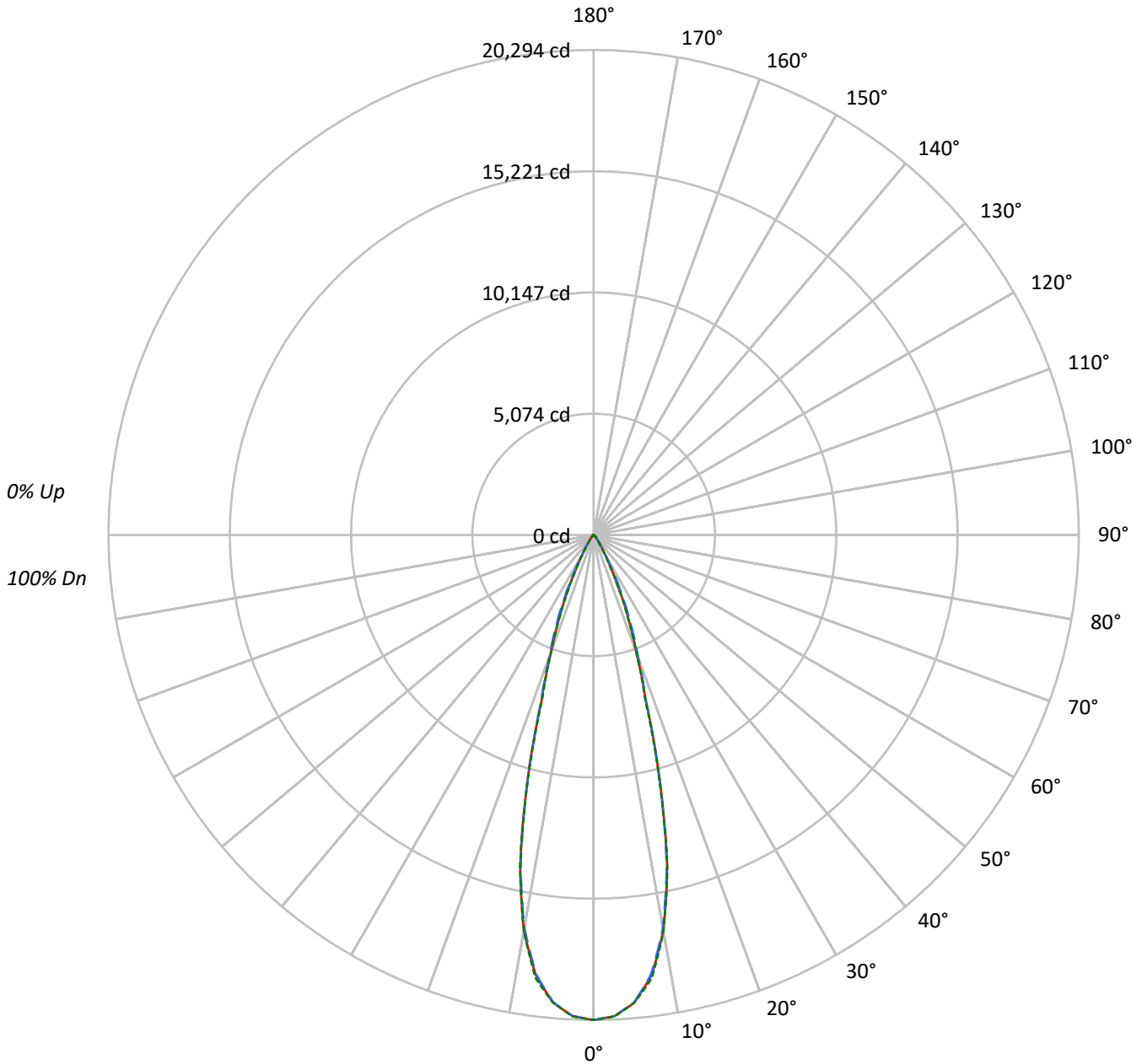
Input Watts (W): 72.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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°	1553349	1553349	1553349
5°	1508755	1506996	1508832
10°	1306816	1297598	1306505
15°	852629	848049	843785
20°	423977	439878	423407
25°	213565	240836	209190
30°	85512	93166	74499
35°	39657	37984	31845
40°	17126	19015	16127
45°	12081	14992	12189
50°	4156	10920	4394
55°	2389	4524	2522
60°	1684	1990	1684
65°	1087	1087	1087
70°	671	448	671
75°	0	296	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 14992 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1784.5	28.3
10°-20°	2874.0	45.5
20°-30°	1241.9	19.7
30°-40°	283.1	4.5
40°-50°	97.2	1.5
50°-60°	23.7	0.4
60°-70°	6.2	0.1
70°-80°	0.7	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°	5900.4	93.5
0°-40°	6183.5	98.0
0°-60°	6304.4	99.9
0°-90°	6311.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6311.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20294	20294	20294	20294	20294	
5°	19636	19617	19613	19654	19637	1786
15°	10760	10630	10702	10667	10648	2881
25°	2529	2624	2852	2558	2477	1210
35°	424	433	406	404	341	288
45°	112	138	138	138	113	79
55°	18	19	34	20	19	17
65°	6	6	6	6	6	6
75°	0	0	1	0	0	1
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°	20293.7	20293.7	20293.7	20293.7	20293.7
2.5°	20159.2	20145.3	20153.2	20163.2	20167.2
5°	19636.1	19617.2	19613.2	19654.1	19637.1
7.5°	18581.0	18554.1	18513.3	18605.9	18692.6
10°	16813.5	16783.6	16694.9	16738.7	16809.5
12.5°	14204.0	14107.4	14105.4	14244.9	14225.9
15°	10759.6	10630.1	10701.8	10667.0	10648.0
17.5°	7235.5	7185.7	7281.4	7252.5	7127.9
20°	5205.0	5217.9	5400.2	5308.6	5198.0
22.5°	3798.1	3844.9	4061.1	3825.0	3738.3
25°	2528.7	2624.4	2851.6	2557.6	2476.9
27.5°	1555.3	1599.1	1829.3	1535.4	1491.5
30°	967.5	945.5	1054.1	904.7	842.9
32.5°	634.7	606.8	641.7	575.9	526.1
35°	424.4	433.4	406.5	403.5	340.8
37.5°	265.0	304.9	269.0	286.9	219.2
40°	171.4	221.2	190.3	210.2	161.4
42.5°	140.5	170.4	156.4	166.4	143.5
45°	111.6	138.5	138.5	138.5	112.6
47.5°	61.8	92.7	118.6	94.7	65.8
50°	34.9	46.8	91.7	48.8	36.9
52.5°	23.9	26.9	62.8	27.9	24.9
55°	17.9	18.9	33.9	19.9	18.9
57.5°	13.9	14.9	17.9	14.9	13.9
60°	11.0	11.0	13.0	12.0	11.0
62.5°	8.0	8.0	9.0	8.0	8.0
65°	6.0	6.0	6.0	6.0	6.0
67.5°	3.0	4.0	4.0	4.0	4.0
70°	3.0	2.0	2.0	2.0	3.0
72.5°	2.0	1.0	1.0	1.0	1.0
75°	0.0	0.0	1.0	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

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Scaled Data Report





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

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