

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: P753000

Luminaire Tested: LD4D75BD010-EU4DR3070959027-4LBCSSQMW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753000
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: LD4D75BD010-EU4DR3070959027-4LBCSSQMW
Description: 4 INCH SQAURE SHALLOW CAST 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: 6206.5 lumens
Efficiency: N/A
Efficacy: 85.7 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

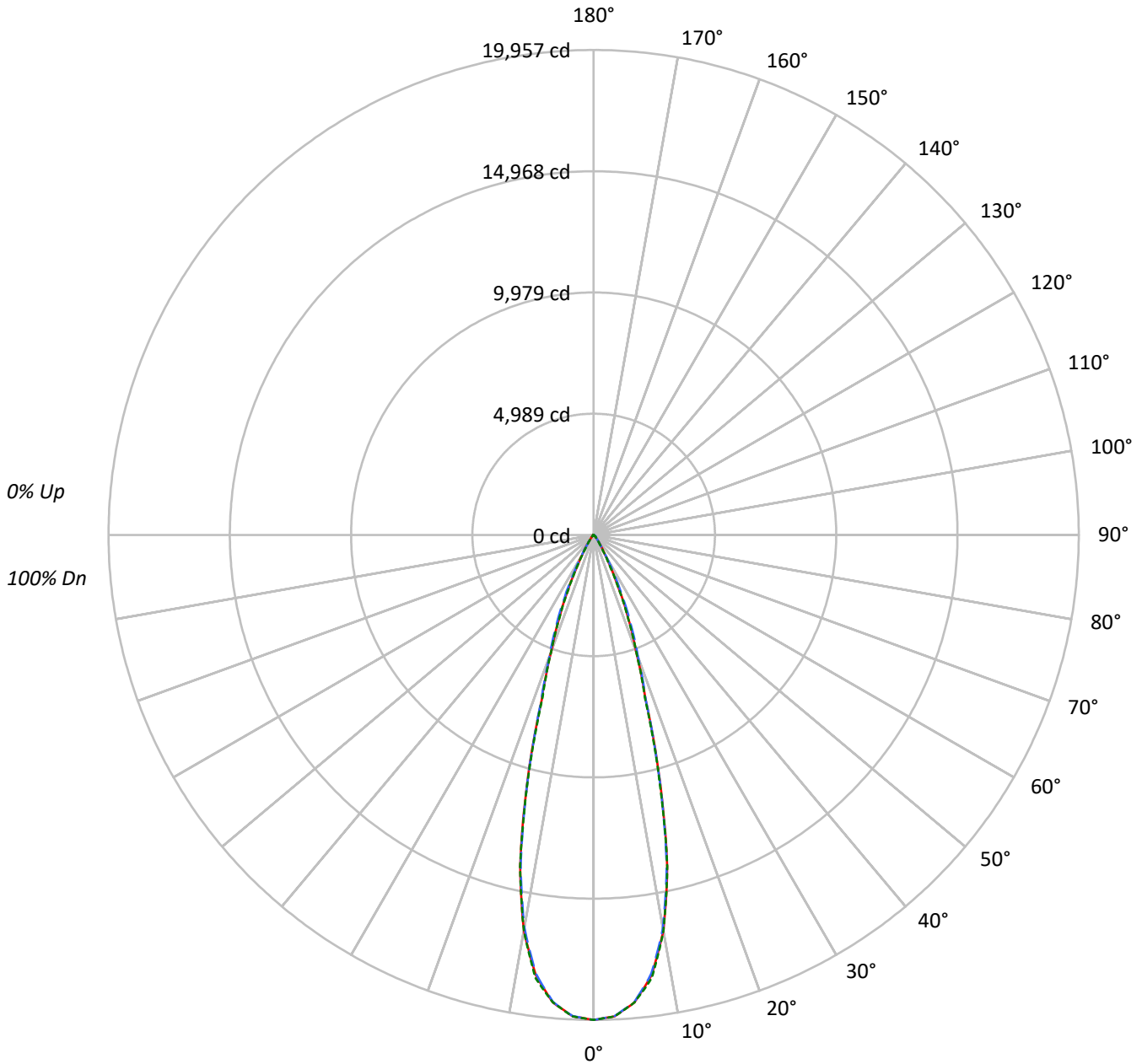
Input Watts (W): 72.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	1527577	1527577	1527577
5°	1483722	1481993	1483799
10°	1285131	1276068	1284828
15°	838484	833983	829791
20°	416940	432579	416378
25°	210026	236841	205719
30°	84089	91628	73262
35°	39003	37358	31312
40°	16837	18695	15857
45°	11875	14743	11983
50°	4084	10729	4323
55°	2349	4444	2482
60°	1653	1944	1653
65°	1069	1069	1069
70°	649	448	649
75°	0	296	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 14743 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1754.9	28.3
10°-20°	2826.3	45.5
20°-30°	1221.3	19.7
30°-40°	278.4	4.5
40°-50°	95.6	1.5
50°-60°	23.3	0.4
60°-70°	6.0	0.1
70°-80°	0.6	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°	5802.6	93.5
0°-40°	6080.9	98.0
0°-60°	6199.8	99.9
0°-90°	6206.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6206.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	19957	19957	19957	19957	19957	
5°	19310	19292	19288	19328	19311	1756
15°	10581	10454	10524	10490	10471	2833
25°	2487	2581	2804	2515	2436	1190
35°	417	426	400	397	335	283
45°	110	136	136	136	111	78
55°	18	19	33	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°	19957.0	19957.0	19957.0	19957.0	19957.0
2.5°	19824.7	19811.0	19818.9	19828.7	19832.6
5°	19310.3	19291.7	19287.8	19328.0	19311.3
7.5°	18272.7	18246.3	18206.1	18297.2	18382.4
10°	16534.5	16505.1	16417.9	16461.0	16530.6
12.5°	13968.3	13873.3	13871.3	14008.5	13989.9
15°	10581.1	10453.7	10524.3	10490.0	10471.4
17.5°	7115.5	7066.5	7160.5	7132.1	7009.7
20°	5118.6	5131.3	5310.6	5220.5	5111.7
22.5°	3735.1	3781.1	3993.8	3761.5	3676.3
25°	2486.8	2580.9	2804.3	2515.2	2435.8
27.5°	1529.5	1572.6	1799.0	1509.9	1466.8
30°	951.4	929.9	1036.7	889.7	828.9
32.5°	624.1	596.7	631.0	566.3	517.3
35°	417.4	426.2	399.8	396.8	335.1
37.5°	260.6	299.8	264.6	282.2	215.6
40°	168.5	217.5	187.1	206.7	158.7
42.5°	138.2	167.5	153.8	163.6	141.1
45°	109.7	136.2	136.2	136.2	110.7
47.5°	60.7	91.1	116.6	93.1	64.7
50°	34.3	46.1	90.1	48.0	36.3
52.5°	23.5	26.5	61.7	27.4	24.5
55°	17.6	18.6	33.3	19.6	18.6
57.5°	13.7	14.7	17.6	14.7	13.7
60°	10.8	10.8	12.7	11.8	10.8
62.5°	7.8	7.8	8.8	7.8	7.8
65°	5.9	5.9	5.9	5.9	5.9
67.5°	2.9	3.9	3.9	3.9	3.9
70°	2.9	2.0	2.0	2.0	2.9
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

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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