

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: P753010

Luminaire Tested: LD4D75BD010-EU4DR3070959027-4LBSQW1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753010
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-EU4DR3070959027-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF 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: 5713.2 lumens
Efficiency: N/A
Efficacy: 78.9 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')

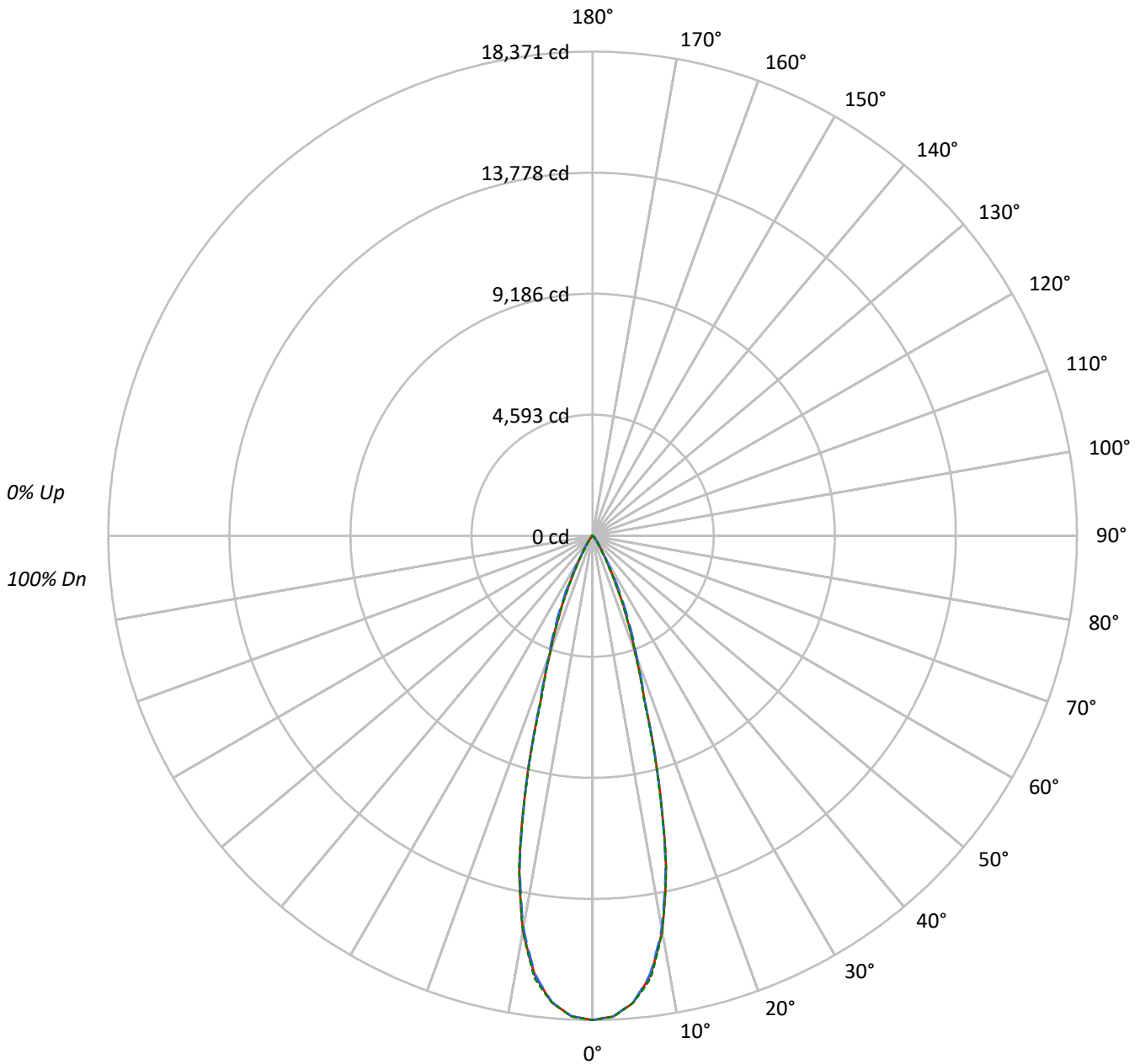
CIE Type: Direct

Input Watts (W): 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	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°	1406171	1406171	1406171
5°	1365802	1364212	1365871
10°	1182993	1174654	1182714
15°	771840	767696	763837
20°	383803	398205	383290
25°	193329	218015	189368
30°	77407	84346	67438
35°	35901	34387	28827
40°	15498	17216	14598
45°	10933	13574	11031
50°	3763	9884	3977
55°	2162	4097	2282
60°	1516	1791	1516
65°	978	978	978
70°	604	403	604
75°	0	266	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 13574 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1615.4	28.3
10°-20°	2601.7	45.5
20°-30°	1124.3	19.7
30°-40°	256.2	4.5
40°-50°	88.0	1.5
50°-60°	21.5	0.4
60°-70°	5.6	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°	5341.4	93.5
0°-40°	5597.6	98.0
0°-60°	5707.1	99.9
0°-90°	5713.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5713.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18371	18371	18371	18371	18371	
5°	17776	17758	17755	17792	17776	1617
15°	9740	9623	9688	9656	9639	2608
25°	2289	2376	2581	2315	2242	1096
35°	384	392	368	365	308	261
45°	101	125	125	125	102	72
55°	16	17	31	18	17	16
65°	5	5	5	5	5	5
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°	18370.9	18370.9	18370.9	18370.9	18370.9
2.5°	18249.1	18236.5	18243.7	18252.7	18256.3
5°	17775.6	17758.5	17754.9	17791.8	17776.5
7.5°	16820.4	16796.1	16759.1	16843.0	16921.5
10°	15220.4	15193.3	15113.1	15152.7	15216.8
12.5°	12858.2	12770.7	12768.9	12895.2	12878.0
15°	9740.1	9622.9	9687.8	9656.3	9639.1
17.5°	6550.0	6504.9	6591.4	6565.3	6452.5
20°	4711.8	4723.5	4888.6	4805.6	4705.5
22.5°	3438.2	3480.6	3676.3	3462.6	3384.1
25°	2289.1	2375.7	2581.4	2315.3	2242.2
27.5°	1407.9	1447.6	1656.0	1389.9	1350.2
30°	875.8	855.9	954.3	819.0	763.0
32.5°	574.5	549.3	580.9	521.3	476.2
35°	384.2	392.3	368.0	365.3	308.5
37.5°	239.9	276.0	243.5	259.8	198.4
40°	155.1	200.2	172.3	190.3	146.1
42.5°	127.2	154.2	141.6	150.6	129.9
45°	101.0	125.4	125.4	125.4	101.9
47.5°	55.9	83.9	107.3	85.7	59.5
50°	31.6	42.4	83.0	44.2	33.4
52.5°	21.6	24.4	56.8	25.3	22.5
55°	16.2	17.1	30.7	18.0	17.1
57.5°	12.6	13.5	16.2	13.5	12.6
60°	9.9	9.9	11.7	10.8	9.9
62.5°	7.2	7.2	8.1	7.2	7.2
65°	5.4	5.4	5.4	5.4	5.4
67.5°	2.7	3.6	3.6	3.6	3.6
70°	2.7	1.8	1.8	1.8	2.7
72.5°	1.8	0.9	0.9	0.9	0.9
75°	0.0	0.0	0.9	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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