

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: P753032

Luminaire Tested: LD4D75BD010-EU4DR3070959035-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753032
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-EU4DR3070959035-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7447.0 lumens
Efficiency: N/A
Efficacy: 102.9 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

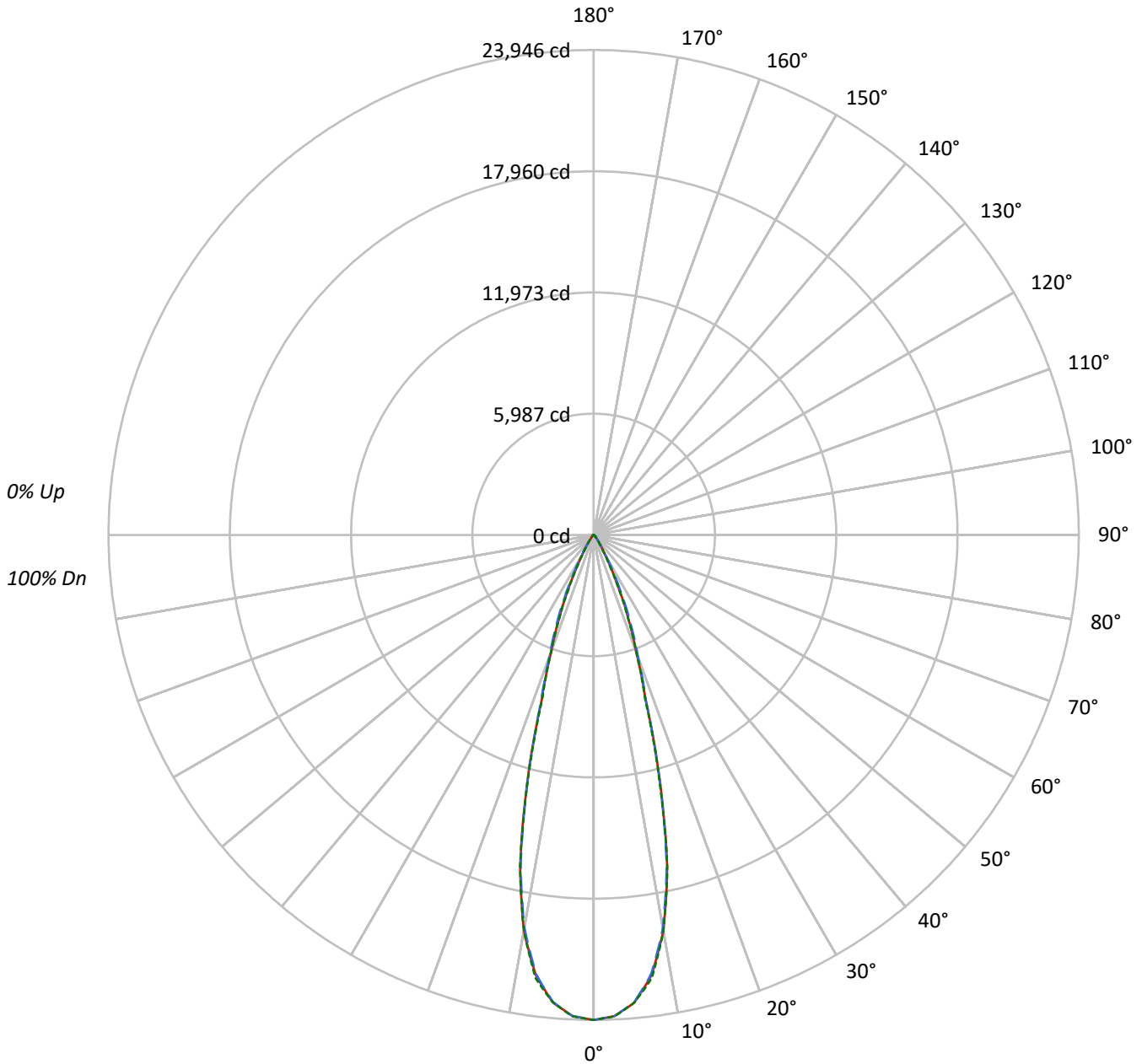
Input Watts (W): 72.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	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°	1832878	1832878	1832878
5°	1780254	1778180	1780346
10°	1541970	1531097	1541605
15°	1006060	1000656	995624
20°	500269	519036	499593
25°	252001	284170	246840
30°	100900	109933	87907
35°	46796	44824	37573
40°	20204	22432	19035
45°	14256	17688	14375
50°	4894	12884	5180
55°	2829	5338	2976
60°	1975	2342	1975
65°	1286	1286	1286
70°	783	537	783
75°	0	355	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 17688 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2105.6	28.3
10°-20°	3391.2	45.5
20°-30°	1465.4	19.7
30°-40°	334.0	4.5
40°-50°	114.7	1.5
50°-60°	28.0	0.4
60°-70°	7.3	0.1
70°-80°	0.8	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°	6962.2	93.5
0°-40°	7296.2	98.0
0°-60°	7438.9	99.9
0°-90°	7447.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7447.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	23946	23946	23946	23946	23946	
5°	23170	23147	23143	23191	23171	2107
15°	12696	12543	12628	12586	12564	3399
25°	2984	3097	3365	3018	2923	1428
35°	501	511	480	476	402	340
45°	132	163	163	163	133	93
55°	21	22	40	24	22	21
65°	7	7	7	7	7	7
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°	23945.6	23945.6	23945.6	23945.6	23945.6
2.5°	23786.9	23770.4	23779.8	23791.6	23796.3
5°	23169.6	23147.3	23142.6	23190.8	23170.8
7.5°	21924.6	21892.9	21844.7	21954.0	22056.3
10°	19839.0	19803.8	19699.1	19750.9	19834.3
12.5°	16760.0	16646.0	16643.6	16808.2	16785.9
15°	12695.8	12543.0	12627.6	12586.5	12564.1
17.5°	8537.5	8478.8	8591.6	8557.5	8410.6
20°	6141.6	6156.9	6372.0	6263.8	6133.3
22.5°	4481.6	4536.8	4791.9	4513.3	4411.0
25°	2983.8	3096.7	3364.7	3017.9	2922.7
27.5°	1835.2	1886.9	2158.5	1811.7	1759.9
30°	1141.6	1115.7	1243.8	1067.5	994.6
32.5°	748.9	716.0	757.1	679.5	620.7
35°	500.8	511.4	479.7	476.1	402.1
37.5°	312.7	359.7	317.4	338.6	258.6
40°	202.2	261.0	224.5	248.1	190.5
42.5°	165.8	201.0	184.6	196.3	169.3
45°	131.7	163.4	163.4	163.4	132.8
47.5°	72.9	109.3	139.9	111.7	77.6
50°	41.1	55.3	108.2	57.6	43.5
52.5°	28.2	31.7	74.1	32.9	29.4
55°	21.2	22.3	40.0	23.5	22.3
57.5°	16.5	17.6	21.2	17.6	16.5
60°	12.9	12.9	15.3	14.1	12.9
62.5°	9.4	9.4	10.6	9.4	9.4
65°	7.1	7.1	7.1	7.1	7.1
67.5°	3.5	4.7	4.7	4.7	4.7
70°	3.5	2.4	2.4	2.4	3.5
72.5°	2.4	1.2	1.2	1.2	1.2
75°	0.0	0.0	1.2	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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