

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: P753042

Luminaire Tested: LD4D75BD010-EU4DR3070959040-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753042
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-EU4DR3070959040-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7775.6 lumens
Efficiency: N/A
Efficacy: 107.4 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

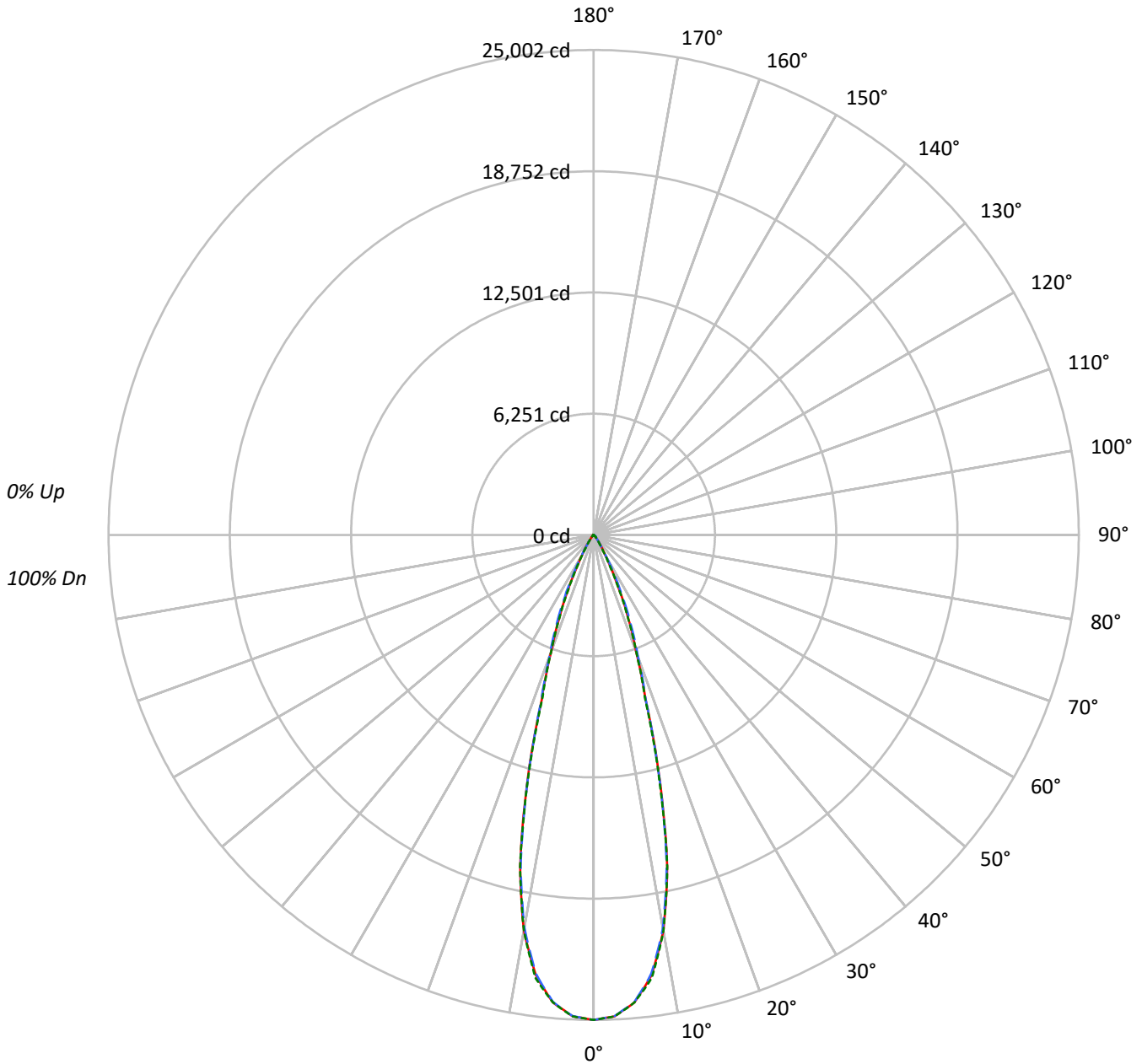


Downlight

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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	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°	1913769	1913769	1913769
5°	1858827	1856660	1858926
10°	1610026	1598678	1609645
15°	1050460	1044818	1039572
20°	522343	541942	521643
25°	263124	296712	257727
30°	105346	114785	91788
35°	48861	46796	39227
40°	21093	23431	19874
45°	14884	18467	15014
50°	5120	13444	5406
55°	2949	5565	3109
60°	2067	2449	2067
65°	1340	1340	1340
70°	828	559	828
75°	0	355	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 18467 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2198.6	28.3
10°-20°	3540.8	45.5
20°-30°	1530.1	19.7
30°-40°	348.7	4.5
40°-50°	119.7	1.5
50°-60°	29.2	0.4
60°-70°	7.6	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°	7269.5	93.5
0°-40°	7618.2	98.0
0°-60°	7767.2	99.9
0°-90°	7775.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7775.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	25002	25002	25002	25002	25002	
5°	24192	24169	24164	24214	24194	2200
15°	13256	13097	13185	13142	13119	3549
25°	3116	3233	3513	3151	3052	1491
35°	523	534	501	497	420	355
45°	138	171	171	171	139	98
55°	22	23	42	25	23	22
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°	25002.4	25002.4	25002.4	25002.4	25002.4
2.5°	24836.7	24819.5	24829.3	24841.6	24846.5
5°	24192.2	24168.9	24164.0	24214.3	24193.5
7.5°	22892.3	22859.1	22808.8	22923.0	23029.8
10°	20714.6	20677.8	20568.6	20622.6	20709.7
12.5°	17499.7	17380.6	17378.2	17550.0	17526.7
15°	13256.1	13096.6	13184.9	13142.0	13118.7
17.5°	8914.3	8853.0	8970.8	8935.2	8781.8
20°	6412.6	6428.6	6653.2	6540.3	6404.0
22.5°	4679.4	4737.1	5003.4	4712.5	4605.7
25°	3115.5	3233.3	3513.2	3151.1	3051.6
27.5°	1916.2	1970.2	2253.8	1891.6	1837.6
30°	1191.9	1164.9	1298.7	1114.6	1038.5
32.5°	781.9	747.6	790.5	709.5	648.1
35°	522.9	534.0	500.8	497.2	419.8
37.5°	326.5	375.6	331.4	353.5	270.1
40°	211.1	272.5	234.5	259.0	198.9
42.5°	173.1	209.9	192.7	205.0	176.8
45°	137.5	170.6	170.6	170.6	138.7
47.5°	76.1	114.2	146.1	116.6	81.0
50°	43.0	57.7	112.9	60.1	45.4
52.5°	29.5	33.1	77.3	34.4	30.7
55°	22.1	23.3	41.7	24.6	23.3
57.5°	17.2	18.4	22.1	18.4	17.2
60°	13.5	13.5	16.0	14.7	13.5
62.5°	9.8	9.8	11.0	9.8	9.8
65°	7.4	7.4	7.4	7.4	7.4
67.5°	3.7	4.9	4.9	4.9	4.9
70°	3.7	2.5	2.5	2.5	3.7
72.5°	2.5	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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