

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: P753033

Luminaire Tested: LD4D75BD010-EU4DR3070959035-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753033
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-EU4DR3070959035-4LBS1LI
Description: 4 INCH ROUND SHALLOW 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: 7819.3 lumens
Efficiency: N/A
Efficacy: 108.0 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

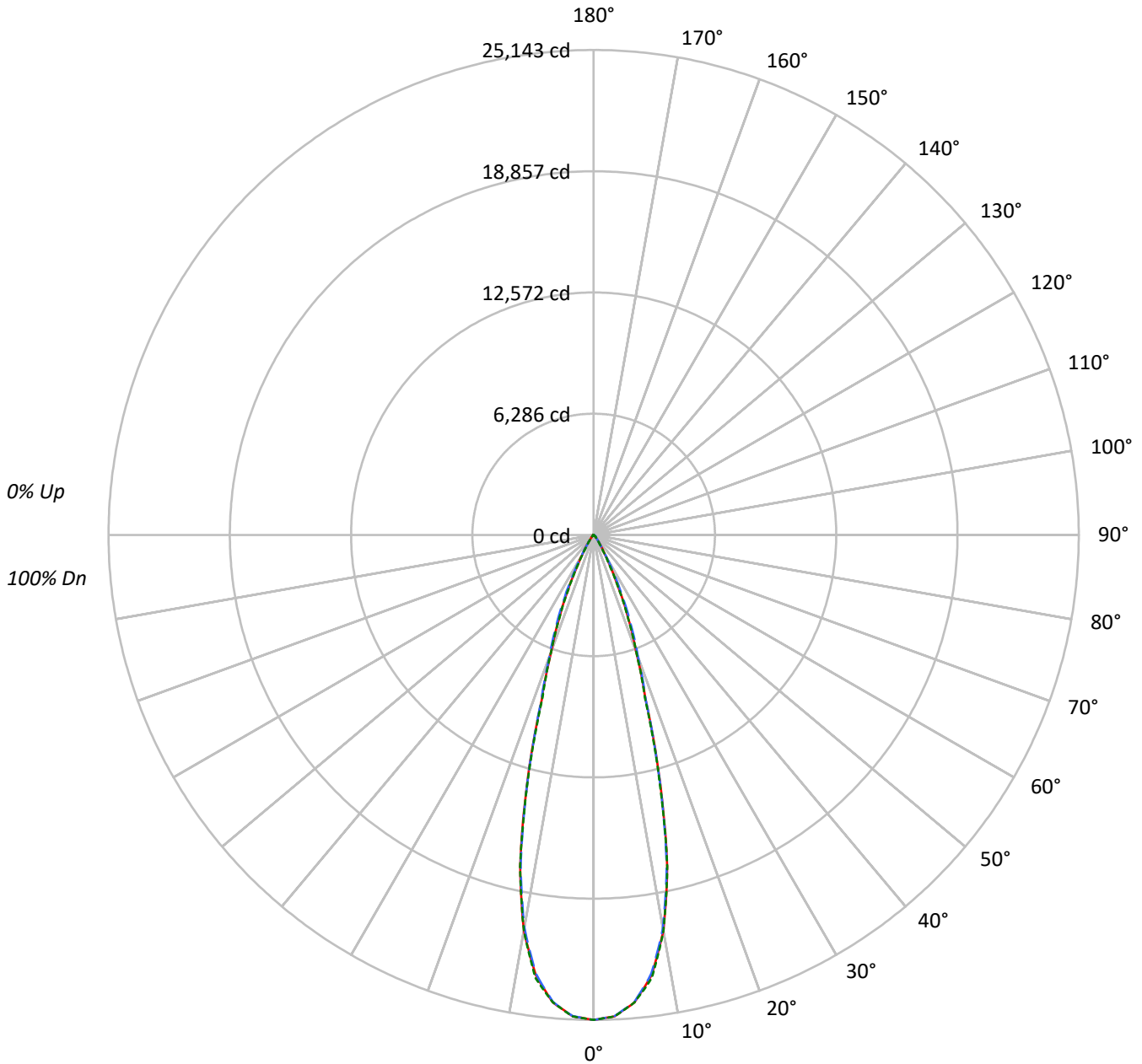


Downlight

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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°	1924515	1924515	1924515
5°	1869269	1867086	1869368
10°	1619073	1607655	1618684
15°	1056364	1050690	1045405
20°	525284	544988	524575
25°	264602	298376	259179
30°	105938	115430	92300
35°	49141	47058	39451
40°	21213	23561	19984
45°	14971	18575	15101
50°	5144	13528	5442
55°	2963	5605	3136
60°	2082	2449	2082
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: 18575 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2210.9	28.3
10°-20°	3560.7	45.5
20°-30°	1538.7	19.7
30°-40°	350.7	4.5
40°-50°	120.4	1.5
50°-60°	29.4	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°	7310.3	93.5
0°-40°	7661.0	98.0
0°-60°	7810.9	99.9
0°-90°	7819.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7819.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	25143	25143	25143	25143	25143	
5°	24328	24305	24300	24350	24329	2213
15°	13331	13170	13259	13216	13192	3569
25°	3133	3252	3533	3169	3069	1500
35°	526	537	504	500	422	357
45°	138	172	172	172	140	98
55°	22	24	42	25	24	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°	25142.8	25142.8	25142.8	25142.8	25142.8
2.5°	24976.2	24958.9	24968.8	24981.1	24986.1
5°	24328.1	24304.7	24299.7	24350.3	24329.4
7.5°	23020.9	22987.5	22936.9	23051.7	23159.1
10°	20831.0	20794.0	20684.1	20738.4	20826.0
12.5°	17598.0	17478.3	17475.8	17648.6	17625.2
15°	13330.6	13170.1	13259.0	13215.8	13192.3
17.5°	8964.4	8902.7	9021.2	8985.4	8831.1
20°	6448.7	6464.7	6690.6	6577.0	6440.0
22.5°	4705.6	4763.7	5031.5	4739.0	4631.6
25°	3133.0	3251.5	3532.9	3168.8	3068.8
27.5°	1926.9	1981.3	2266.4	1902.3	1847.9
30°	1198.6	1171.5	1306.0	1120.9	1044.3
32.5°	786.3	751.8	795.0	713.5	651.8
35°	525.9	537.0	503.6	499.9	422.2
37.5°	328.4	377.7	333.3	355.5	271.6
40°	212.3	274.0	235.8	260.5	200.0
42.5°	174.1	211.1	193.8	206.1	177.8
45°	138.3	171.6	171.6	171.6	139.5
47.5°	76.5	114.8	146.9	117.3	81.5
50°	43.2	58.0	113.6	60.5	45.7
52.5°	29.6	33.3	77.8	34.6	30.9
55°	22.2	23.5	42.0	24.7	23.5
57.5°	17.3	18.5	22.2	18.5	17.3
60°	13.6	13.6	16.0	14.8	13.6
62.5°	9.9	9.9	11.1	9.9	9.9
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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