

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: P754357

Luminaire Tested: LD4D80BD010-EU4DR6570959035-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P754357
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-147)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D80BD010-EU4DR6570959035-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6586.1 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.96
Luminous Opening: Circular (Dia: 0.48' x H: 0')
CIE Type: Direct

Input Watts (W): 78.9
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

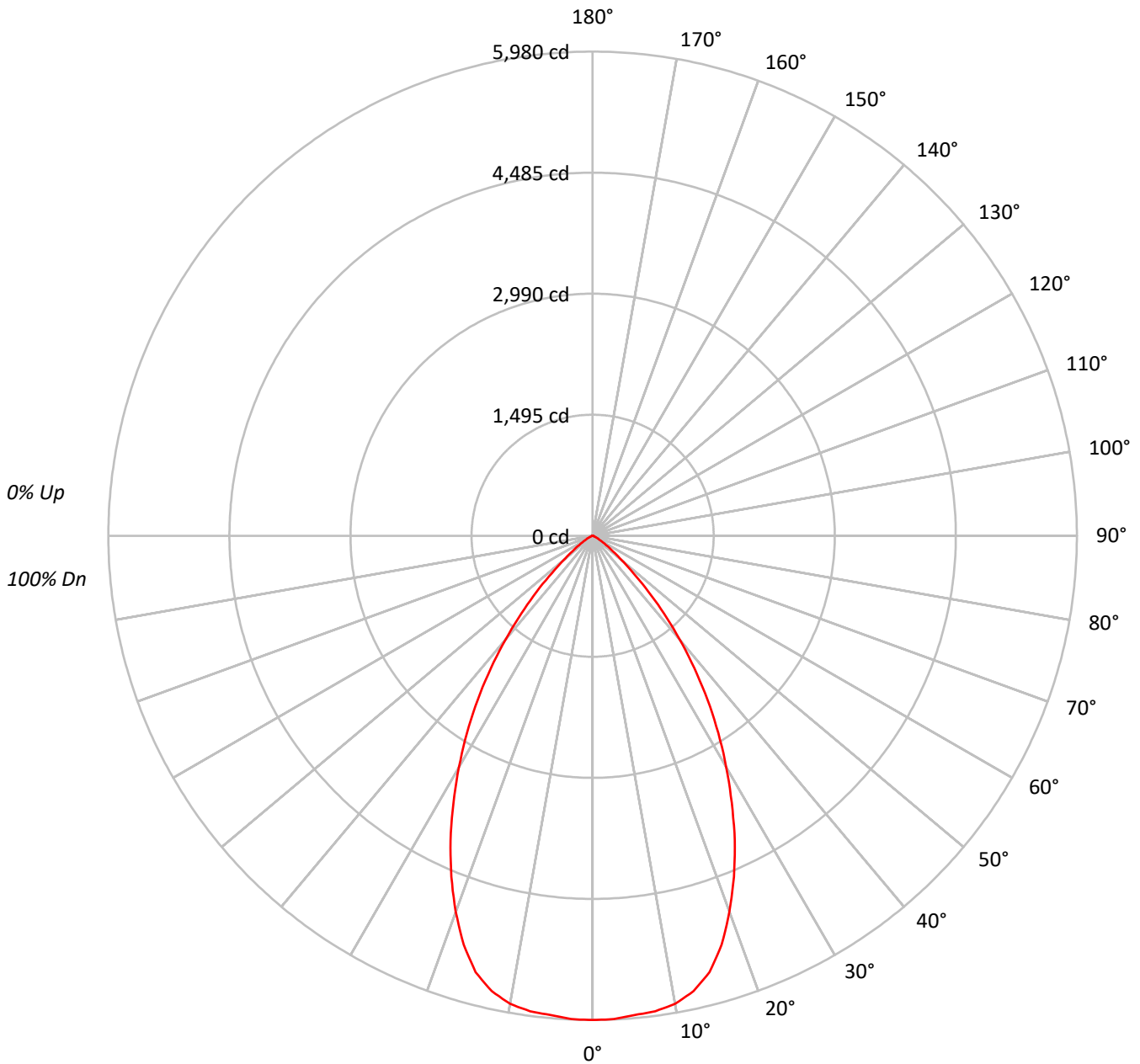


Downlight

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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				100															
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	93				93															
2	107	102	97	94	105	100	96	92	97	93	90	94	91	88	91	89	87	85				85															
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	80	78				78															
4	95	87	81	76	93	86	80	76	84	79	75	82	77	74	80	76	73	72				72															
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66				66															
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61				61															
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56				56															
8	76	66	59	55	75	65	59	55	64	58	54	63	58	54	62	57	54	52				52															
9	72	61	55	51	71	61	55	51	60	54	51	59	54	50	58	54	50	49				49															
10	68	58	52	47	67	57	51	47	57	51	47	56	51	47	55	50	47	46				46															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	349255
5°	348379
10°	348078
15°	337348
20°	307112
25°	267632
30°	222596
35°	176370
40°	127299
45°	80423
50°	41923
55°	22279
60°	11704
65°	6440
70°	2698
75°	2979
80°	2085
85°	1742

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 80423 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	565.5	8.6
10°-20°	1548.6	23.5
20°-30°	1892.9	28.7
30°-40°	1535.9	23.3
40°-50°	765.4	11.6
50°-60°	213.5	3.2
60°-70°	48.5	0.7
70°-80°	12.6	0.2
80°-90°	3.2	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°	4007.1	60.8
0°-40°	5542.9	84.2
0°-60°	6521.8	99.0
0°-90°	6586.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6586.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5980	
5°	5942	566
15°	5579	1549
25°	4153	1893
35°	2474	1536
45°	974	765
55°	219	213
65°	47	49
75°	13	13
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5980.0
2.5°	5975.6
5°	5942.3
7.5°	5922.9
10°	5869.3
12.5°	5760.3
15°	5579.3
17.5°	5296.4
20°	4941.3
22.5°	4558.2
25°	4153.1
27.5°	3719.8
30°	3300.7
32.5°	2886.8
35°	2473.7
37.5°	2061.6
40°	1669.7
42.5°	1302.3
45°	973.7
47.5°	678.4
50°	461.4
52.5°	318.1
55°	218.8
57.5°	147.6
60°	100.2
62.5°	69.4
65°	46.6
67.5°	23.7
70°	15.8
72.5°	14.9
75°	13.2
77.5°	8.8
80°	6.2
82.5°	4.4
85°	2.6
87.5°	1.8
90°	0.0

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)