

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: P753037

Luminaire Tested: LD4D75BD010-EU4DR3070959040-4LBCSSQMB

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753037
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-EU4DR3070959040-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

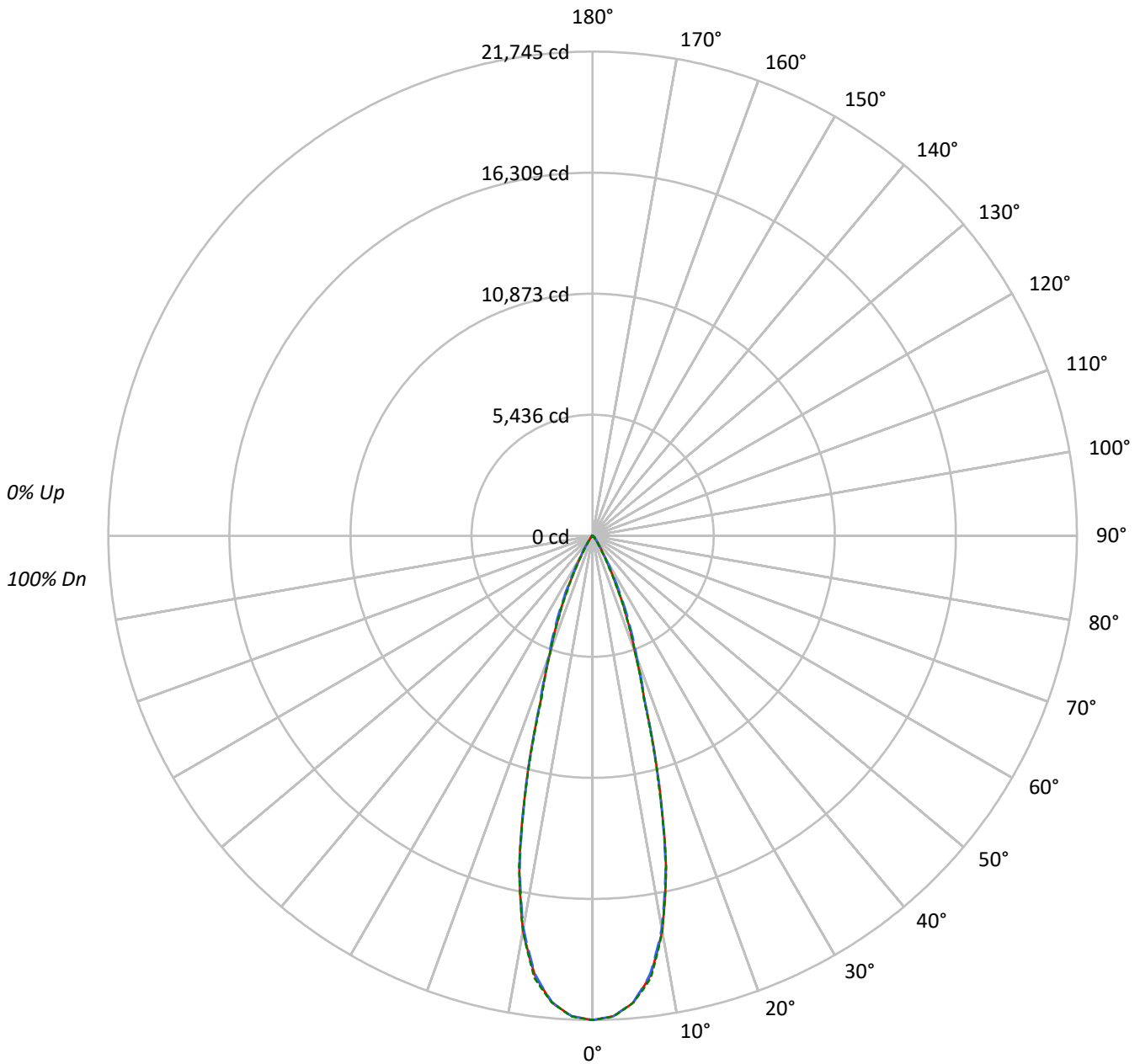
Lumens per Lamp: N/A
Luminaire Lumens: 6762.5 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 72.4
Input Voltage (V): NR
Input Current (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°	1664406	1664406	1664406
5°	1616625	1614742	1616709
10°	1400240	1390369	1399914
15°	913591	908686	904113
20°	454287	471328	453676
25°	228834	258048	224147
30°	91620	99831	79829
35°	42498	40703	34116
40°	18345	20374	17276
45°	12947	16064	13055
50°	4454	11694	4704
55°	2562	4844	2709
60°	1791	2128	1791
65°	1159	1159	1159
70°	716	470	716
75°	0	325	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 16064 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1912.1	28.3
10°-20°	3079.5	45.5
20°-30°	1330.7	19.7
30°-40°	303.3	4.5
40°-50°	104.1	1.5
50°-60°	25.4	0.4
60°-70°	6.6	0.1
70°-80°	0.7	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°	6322.3	93.5
0°-40°	6625.6	98.0
0°-60°	6755.2	99.9
0°-90°	6762.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6762.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21745	21745	21745	21745	21745	
5°	21040	21020	21016	21059	21041	1914
15°	11529	11390	11467	11430	11409	3087
25°	2710	2812	3055	2740	2654	1297
35°	455	464	436	432	365	308
45°	120	148	148	148	121	85
55°	19	20	36	21	20	19
65°	6	6	6	6	6	6
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°	21744.6	21744.6	21744.6	21744.6	21744.6
2.5°	21600.5	21585.5	21594.1	21604.8	21609.0
5°	21040.0	21019.7	21015.5	21059.2	21041.1
7.5°	19909.4	19880.6	19836.8	19936.1	20029.0
10°	18015.5	17983.5	17888.5	17935.5	18011.3
12.5°	15219.5	15116.0	15113.8	15263.3	15243.0
15°	11528.9	11390.1	11467.0	11429.6	11409.3
17.5°	7752.8	7699.4	7801.9	7771.0	7637.5
20°	5577.1	5591.0	5786.3	5688.1	5569.6
22.5°	4069.6	4119.8	4351.5	4098.5	4005.6
25°	2709.5	2812.0	3055.4	2740.5	2654.0
27.5°	1666.5	1713.5	1960.1	1645.2	1598.2
30°	1036.6	1013.1	1129.5	969.4	903.2
32.5°	680.1	650.2	687.5	617.1	563.7
35°	454.8	464.4	435.6	432.4	365.1
37.5°	284.0	326.7	288.2	307.5	234.9
40°	183.6	237.0	203.9	225.3	172.9
42.5°	150.5	182.6	167.6	178.3	153.7
45°	119.6	148.4	148.4	148.4	120.6
47.5°	66.2	99.3	127.0	101.4	70.5
50°	37.4	50.2	98.2	52.3	39.5
52.5°	25.6	28.8	67.3	29.9	26.7
55°	19.2	20.3	36.3	21.4	20.3
57.5°	14.9	16.0	19.2	16.0	14.9
60°	11.7	11.7	13.9	12.8	11.7
62.5°	8.5	8.5	9.6	8.5	8.5
65°	6.4	6.4	6.4	6.4	6.4
67.5°	3.2	4.3	4.3	4.3	4.3
70°	3.2	2.1	2.1	2.1	3.2
72.5°	2.1	1.1	1.1	1.1	1.1
75°	0.0	0.0	1.1	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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