

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: P753765

Luminaire Tested: LD4D80BD010-EU4DR3070959024-4LBCSSQMB

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753765
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: LD4D80BD010-EU4DR3070959024-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

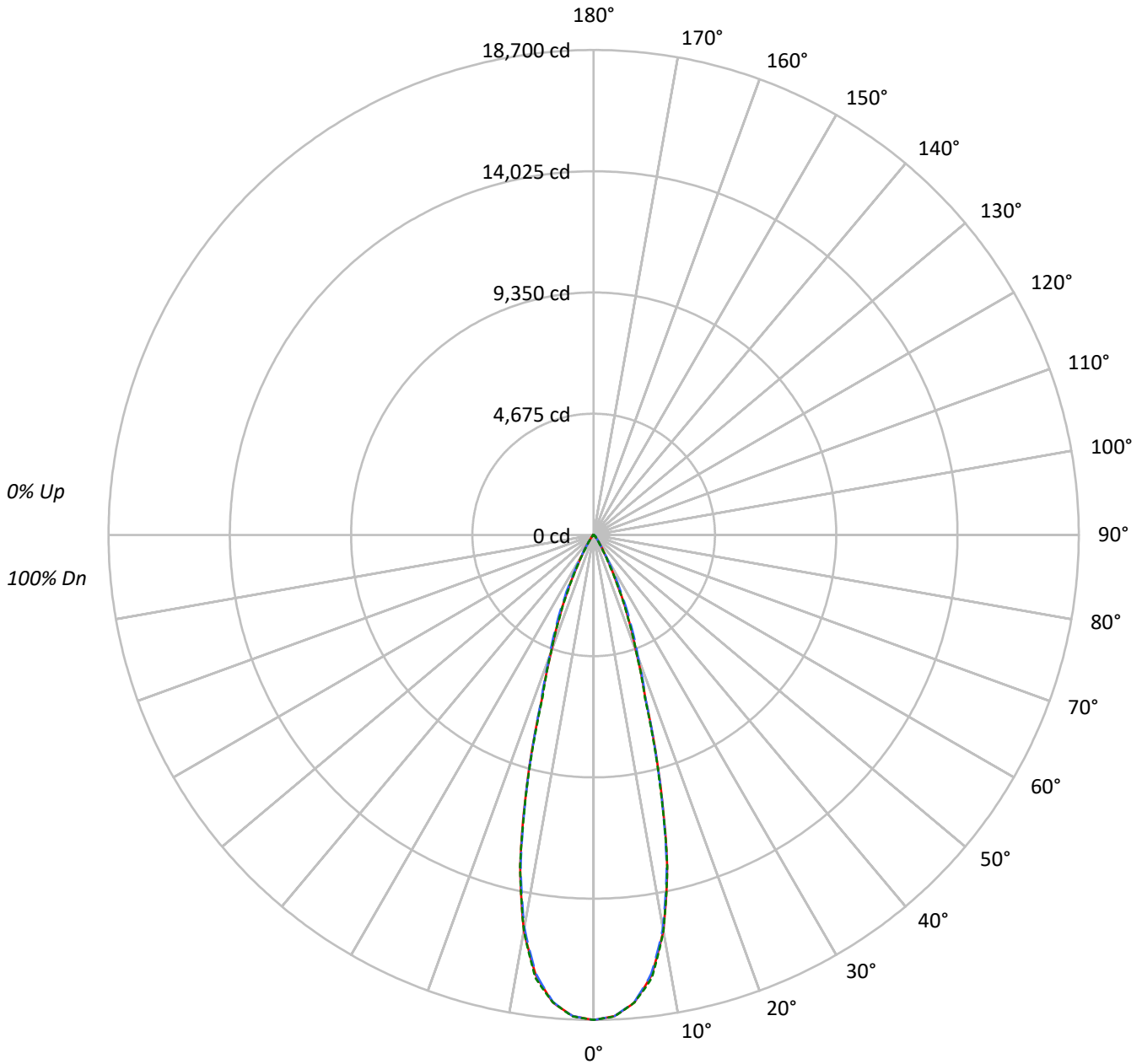
Lumens per Lamp: N/A
Luminaire Lumens: 5815.4 lumens
Efficiency: N/A
Efficacy: 73.7 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 78.9
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	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°	1431323	1431323	1431323
5°	1390228	1388607	1390305
10°	1204150	1195662	1203862
15°	785652	781429	777498
20°	390670	405324	390141
25°	196792	221909	192755
30°	78795	85848	68648
35°	36545	35003	29341
40°	15777	17526	14858
45°	11128	13813	11225
50°	3822	10062	4049
55°	2202	4164	2322
60°	1546	1822	1546
65°	996	996	996
70°	627	403	627
75°	0	266	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 13813 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1644.3	28.3
10°-20°	2648.2	45.5
20°-30°	1144.4	19.7
30°-40°	260.8	4.5
40°-50°	89.6	1.5
50°-60°	21.9	0.4
60°-70°	5.7	0.1
70°-80°	0.6	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°	5436.9	93.5
0°-40°	5697.7	98.0
0°-60°	5809.2	99.9
0°-90°	5815.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5815.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18700	18700	18700	18700	18700	
5°	18094	18076	18072	18110	18094	1646
15°	9914	9795	9861	9829	9812	2655
25°	2330	2418	2628	2357	2282	1115
35°	391	399	375	372	314	265
45°	103	128	128	128	104	73
55°	16	17	31	18	17	16
65°	6	6	6	6	6	5
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°	18699.5	18699.5	18699.5	18699.5	18699.5
2.5°	18575.5	18562.7	18570.0	18579.2	18582.9
5°	18093.5	18076.1	18072.4	18110.1	18094.5
7.5°	17121.3	17096.5	17058.9	17144.2	17224.1
10°	15492.6	15465.1	15383.4	15423.8	15488.9
12.5°	13088.2	12999.1	12997.3	13125.8	13108.4
15°	9914.4	9795.0	9861.1	9829.0	9811.5
17.5°	6667.1	6621.2	6709.3	6682.7	6568.0
20°	4796.1	4808.0	4976.0	4891.5	4789.6
22.5°	3499.7	3542.9	3742.1	3524.5	3444.6
25°	2330.1	2418.2	2627.5	2356.7	2282.3
27.5°	1433.1	1473.5	1685.6	1414.8	1374.4
30°	891.5	871.3	971.3	833.6	776.7
32.5°	584.8	559.1	591.2	530.7	484.7
35°	391.1	399.4	374.6	371.8	314.0
37.5°	244.2	280.9	247.9	264.4	202.0
40°	157.9	203.8	175.4	193.7	148.7
42.5°	129.4	157.0	144.1	153.3	132.2
45°	102.8	127.6	127.6	127.6	103.7
47.5°	56.9	85.4	109.3	87.2	60.6
50°	32.1	43.1	84.5	45.0	34.0
52.5°	22.0	24.8	57.8	25.7	23.0
55°	16.5	17.4	31.2	18.4	17.4
57.5°	12.9	13.8	16.5	13.8	12.9
60°	10.1	10.1	11.9	11.0	10.1
62.5°	7.3	7.3	8.3	7.3	7.3
65°	5.5	5.5	5.5	5.5	5.5
67.5°	2.8	3.7	3.7	3.7	3.7
70°	2.8	1.8	1.8	1.8	2.8
72.5°	1.8	0.9	0.9	0.9	0.9
75°	0.0	0.0	0.9	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

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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