

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: P753815

Luminaire Tested: LD4D80BD010-EU4DR3070959035-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753815
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-EU4DR3070959035-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

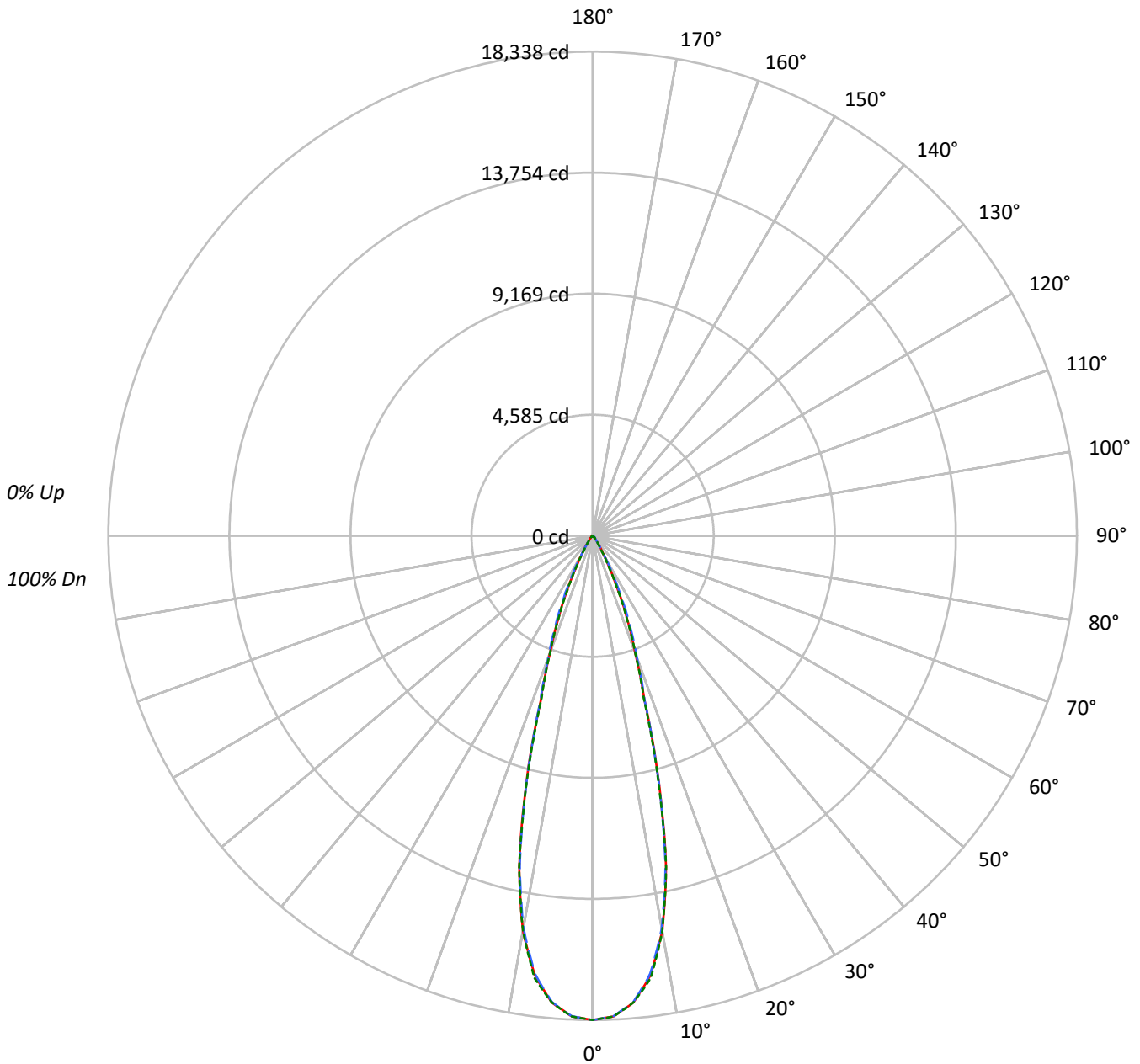
Lumens per Lamp: N/A
Luminaire Lumens: 5703.1 lumens
Efficiency: N/A
Efficacy: 72.3 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

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	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°	1403668	1403668	1403668
5°	1363374	1361784	1363443
10°	1180887	1172563	1180607
15°	770469	766333	762481
20°	383119	397496	382606
25°	192991	217627	189039
30°	77266	84195	67323
35°	35835	34321	28771
40°	15478	17186	14578
45°	10911	13542	11009
50°	3751	9860	3965
55°	2162	4084	2282
60°	1516	1791	1516
65°	978	978	978
70°	604	403	604
75°	0	266	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 13542 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1612.6	28.3
10°-20°	2597.1	45.5
20°-30°	1122.3	19.7
30°-40°	255.8	4.5
40°-50°	87.8	1.5
50°-60°	21.4	0.4
60°-70°	5.6	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°	5331.9	93.5
0°-40°	5587.7	98.0
0°-60°	5696.9	99.9
0°-90°	5703.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5703.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18338	18338	18338	18338	18338	
5°	17744	17727	17723	17760	17745	1614
15°	9723	9606	9671	9639	9622	2603
25°	2285	2372	2577	2311	2238	1094
35°	384	392	367	365	308	260
45°	101	125	125	125	102	72
55°	16	17	31	18	17	16
65°	5	5	5	5	5	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°	18338.2	18338.2	18338.2	18338.2	18338.2
2.5°	18216.7	18204.1	18211.3	18220.3	18223.9
5°	17744.0	17726.9	17723.3	17760.2	17744.9
7.5°	16790.5	16766.2	16729.3	16813.0	16891.4
10°	15193.3	15166.3	15086.2	15125.8	15189.7
12.5°	12835.3	12748.0	12746.2	12872.2	12855.1
15°	9722.8	9605.8	9670.6	9639.1	9622.0
17.5°	6538.3	6493.3	6579.7	6553.6	6441.1
20°	4703.4	4715.1	4879.9	4797.0	4697.1
22.5°	3432.1	3474.4	3669.8	3456.4	3378.1
25°	2285.1	2371.5	2576.8	2311.2	2238.3
27.5°	1405.4	1445.1	1653.0	1387.4	1347.8
30°	874.2	854.4	952.6	817.5	761.7
32.5°	573.5	548.3	579.8	520.4	475.4
35°	383.5	391.7	367.3	364.6	307.9
37.5°	239.5	275.5	243.1	259.3	198.1
40°	154.9	199.9	172.0	190.0	145.9
42.5°	126.9	154.0	141.4	150.4	129.6
45°	100.8	125.1	125.1	125.1	101.7
47.5°	55.8	83.7	107.1	85.5	59.4
50°	31.5	42.3	82.8	44.1	33.3
52.5°	21.6	24.3	56.7	25.2	22.5
55°	16.2	17.1	30.6	18.0	17.1
57.5°	12.6	13.5	16.2	13.5	12.6
60°	9.9	9.9	11.7	10.8	9.9
62.5°	7.2	7.2	8.1	7.2	7.2
65°	5.4	5.4	5.4	5.4	5.4
67.5°	2.7	3.6	3.6	3.6	3.6
70°	2.7	1.8	1.8	1.8	2.7
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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