

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: P754609

Luminaire Tested: LD4D85BD010-EU4DR3070959040-4LBSQW1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P754609
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: LD4D85BD010-EU4DR3070959040-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

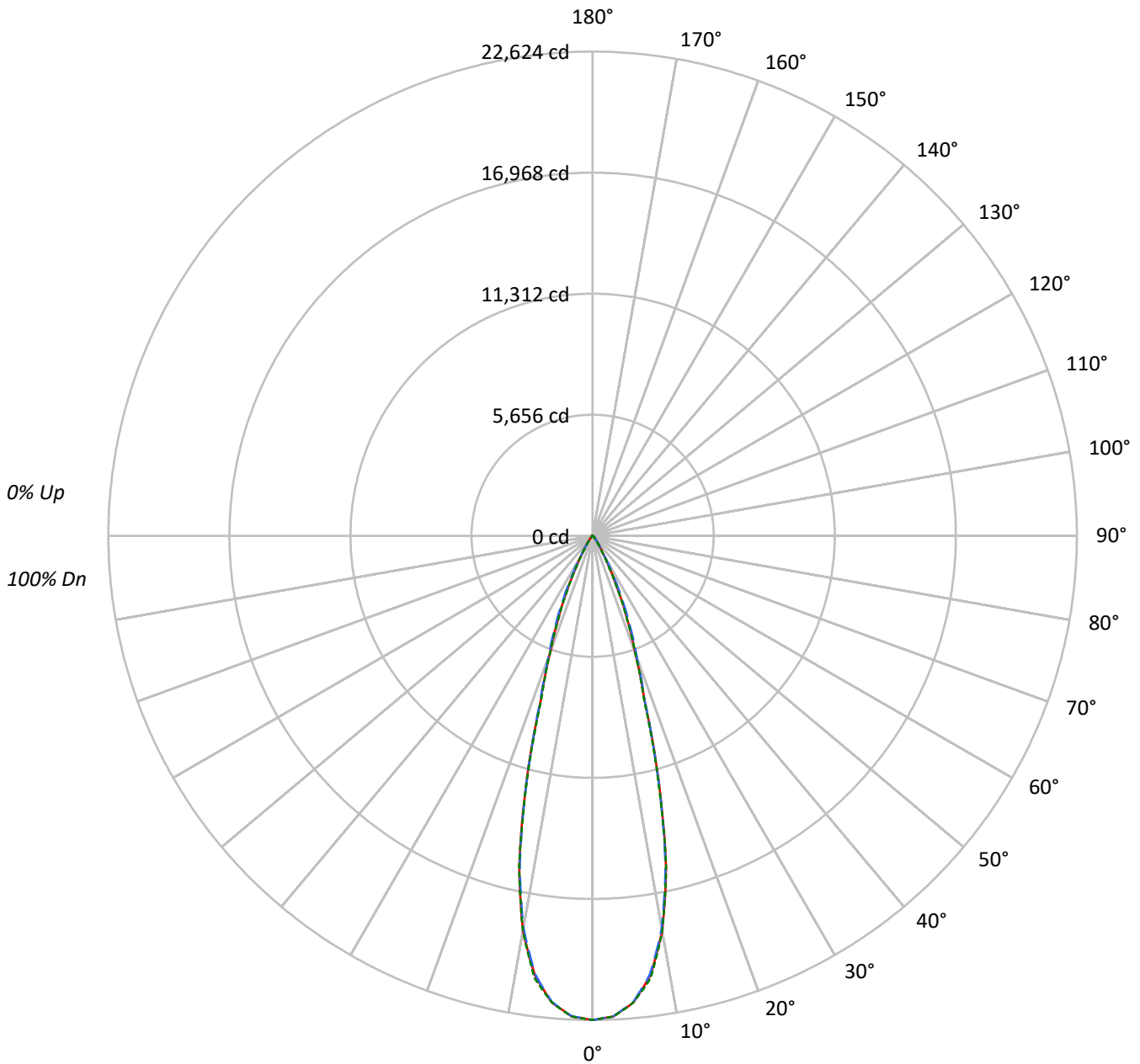
Lumens per Lamp: N/A
Luminaire Lumens: 7036.1 lumens
Efficiency: N/A
Efficacy: 80.2 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 87.7
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



TEST NUMBER: P754609
CATALOG NUMBER: LD4D85BD010-EU4DR3070959040-4LBSQW1MW

Luminous Intensity Polar Plot





TEST NUMBER: P754609

CATALOG NUMBER: LD4D85BD010-EU4DR3070959040-4LBSQW1MW

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°	1731748	1731748	1731748
5°	1682035	1680068	1682120
10°	1456901	1446626	1456552
15°	950550	945447	940692
20°	472663	490396	472036
25°	238099	268495	233218
30°	95332	103870	83055
35°	44217	42348	35499
40°	19095	21203	17976
45°	13466	16714	13585
50°	4632	12170	4894
55°	2669	5044	2816
60°	1868	2204	1868
65°	1213	1213	1213
70°	739	492	739
75°	0	325	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 16714 cd/sqm



TEST NUMBER: P754609

CATALOG NUMBER: LD4D85BD010-EU4DR3070959040-4LBSQW1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1989.5	28.3
10°-20°	3204.1	45.5
20°-30°	1384.6	19.7
30°-40°	315.6	4.5
40°-50°	108.4	1.5
50°-60°	26.5	0.4
60°-70°	6.9	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°	6578.1	93.5
0°-40°	6893.7	98.0
0°-60°	7028.5	99.9
0°-90°	7036.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7036.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	22624	22624	22624	22624	22624	
5°	21891	21870	21866	21911	21892	1991
15°	11995	11851	11931	11892	11871	3212
25°	2819	2926	3179	2851	2761	1349
35°	473	483	453	450	380	321
45°	124	154	154	154	126	88
55°	20	21	38	22	21	19
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



TEST NUMBER: P754609

CATALOG NUMBER: LD4D85BD010-EU4DR3070959040-4LBSQW1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	22624.4	22624.4	22624.4	22624.4	22624.4
2.5°	22474.5	22458.9	22467.8	22478.9	22483.3
5°	21891.3	21870.2	21865.7	21911.3	21892.4
7.5°	20715.0	20685.0	20639.4	20742.7	20839.4
10°	18744.5	18711.1	18612.3	18661.1	18740.0
12.5°	15835.3	15727.6	15725.3	15880.9	15859.7
15°	11995.3	11850.9	11930.9	11892.0	11870.9
17.5°	8066.5	8011.0	8117.6	8085.4	7946.5
20°	5802.7	5817.2	6020.4	5918.2	5795.0
22.5°	4234.3	4286.5	4527.5	4264.3	4167.7
25°	2819.2	2925.8	3179.1	2851.4	2761.4
27.5°	1733.9	1782.8	2039.4	1711.7	1662.8
30°	1078.6	1054.1	1175.2	1008.6	939.7
32.5°	707.6	676.5	715.3	642.0	586.5
35°	473.2	483.2	453.2	449.9	379.9
37.5°	295.5	339.9	299.9	319.9	244.4
40°	191.1	246.6	212.2	234.4	179.9
42.5°	156.6	189.9	174.4	185.5	160.0
45°	124.4	154.4	154.4	154.4	125.5
47.5°	68.9	103.3	132.2	105.5	73.3
50°	38.9	52.2	102.2	54.4	41.1
52.5°	26.7	30.0	70.0	31.1	27.8
55°	20.0	21.1	37.8	22.2	21.1
57.5°	15.6	16.7	20.0	16.7	15.6
60°	12.2	12.2	14.4	13.3	12.2
62.5°	8.9	8.9	10.0	8.9	8.9
65°	6.7	6.7	6.7	6.7	6.7
67.5°	3.3	4.4	4.4	4.4	4.4
70°	3.3	2.2	2.2	2.2	3.3
72.5°	2.2	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

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

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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

Scaled Data Report





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

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

Scaled Data Report



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

Scaled Data Report



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

Scaled Data Report



(END OF REPORT)