

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: P754621

Luminaire Tested: LD4D85BD010-EU4DR3070959050-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P754621
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-EU4DR3070959050-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

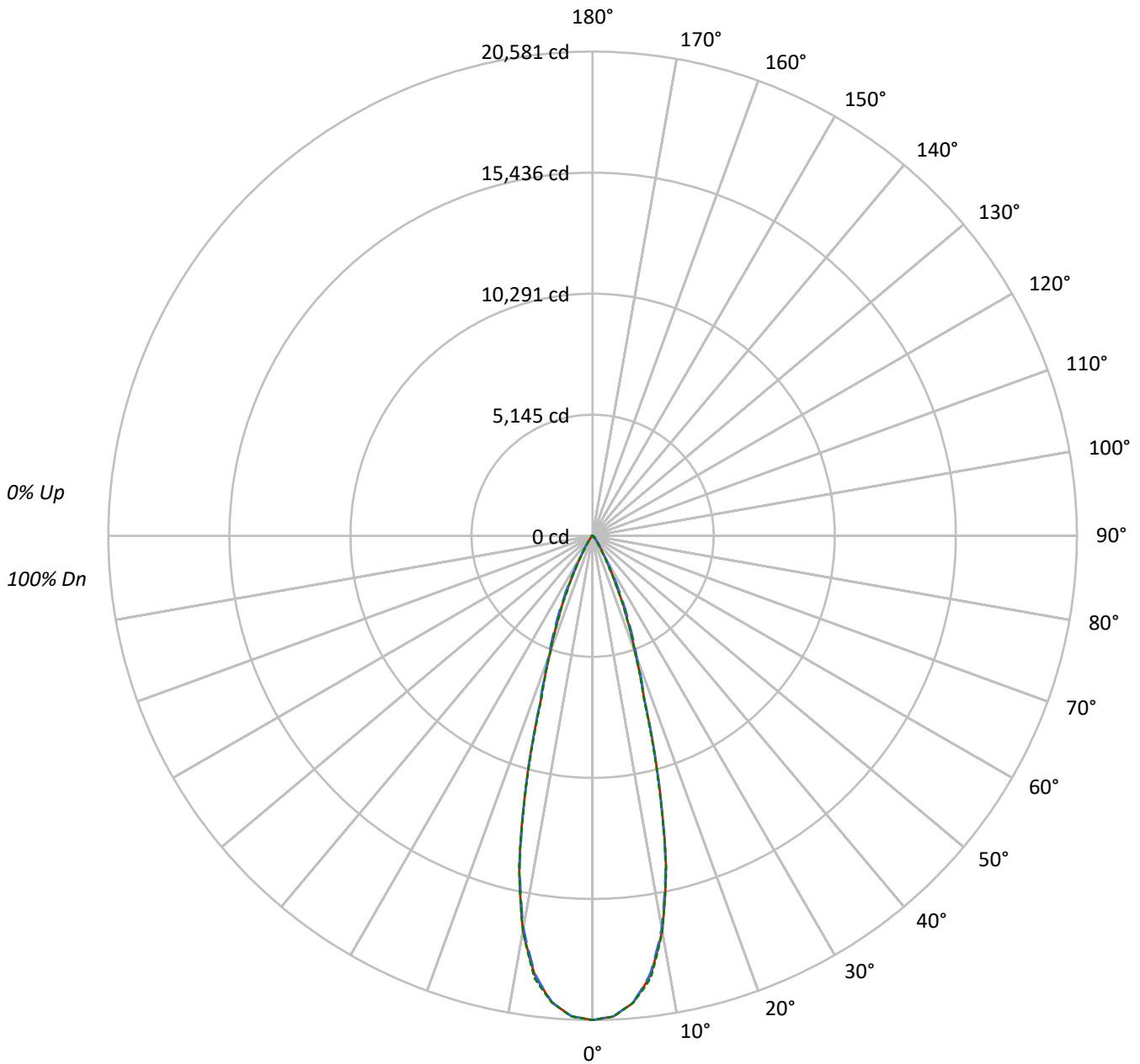
Lumens per Lamp: N/A
Luminaire Lumens: 6400.6 lumens
Efficiency: N/A
Efficacy: 73.0 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 87.7
Input Voltage (V): NR
Input Current (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



TEST NUMBER: P754621
CATALOG NUMBER: LD4D85BD010-EU4DR3070959050-4LBSQW1B

Luminous Intensity Polar Plot





TEST NUMBER: P754621

CATALOG NUMBER: LD4D85BD010-EU4DR3070959050-4LBSQW1B

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°	1575340	1575340	1575340
5°	1530115	1528333	1530192
10°	1325314	1315972	1325003
15°	864706	860054	855735
20°	429972	446109	429402
25°	216588	244239	212154
30°	86723	94492	75551
35°	40227	38526	32294
40°	17366	19285	16357
45°	12254	15209	12362
50°	4215	11074	4454
55°	2429	4591	2562
60°	1699	2005	1699
65°	1105	1105	1105
70°	671	448	671
75°	0	296	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 15209 cd/sqm



TEST NUMBER: P754621

CATALOG NUMBER: LD4D85BD010-EU4DR3070959050-4LBSQW1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1809.8	28.3
10°-20°	2914.7	45.5
20°-30°	1259.5	19.7
30°-40°	287.1	4.5
40°-50°	98.6	1.5
50°-60°	24.1	0.4
60°-70°	6.2	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°	5984.0	93.5
0°-40°	6271.1	98.0
0°-60°	6393.7	99.9
0°-90°	6400.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6400.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20581	20581	20581	20581	20581	
5°	19914	19895	19891	19932	19915	1811
15°	10912	10781	10853	10818	10799	2922
25°	2564	2662	2892	2594	2512	1228
35°	430	440	412	409	346	292
45°	113	140	140	140	114	80
55°	18	19	34	20	19	18
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



TEST NUMBER: P754621

CATALOG NUMBER: LD4D85BD010-EU4DR3070959050-4LBSQW1B

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	20581.0	20581.0	20581.0	20581.0	20581.0
2.5°	20444.6	20430.5	20438.6	20448.7	20452.7
5°	19914.1	19894.9	19890.9	19932.3	19915.1
7.5°	18844.1	18816.8	18775.4	18869.3	18957.2
10°	17051.5	17021.2	16931.3	16975.7	17047.5
12.5°	14405.1	14307.1	14305.1	14446.5	14427.3
15°	10912.0	10780.6	10853.3	10818.0	10798.8
17.5°	7338.0	7287.4	7384.4	7355.1	7228.8
20°	5278.6	5291.8	5476.7	5383.7	5271.6
22.5°	3851.9	3899.4	4118.6	3879.2	3791.2
25°	2564.5	2661.6	2891.9	2593.9	2512.0
27.5°	1577.3	1621.8	1855.2	1557.1	1512.7
30°	981.2	958.9	1069.1	917.5	854.8
32.5°	643.7	615.4	650.7	584.0	533.5
35°	430.5	439.5	412.3	409.2	345.6
37.5°	268.8	309.2	272.8	291.0	222.3
40°	173.8	224.3	193.0	213.2	163.7
42.5°	142.5	172.8	158.6	168.7	145.5
45°	113.2	140.5	140.5	140.5	114.2
47.5°	62.6	94.0	120.2	96.0	66.7
50°	35.4	47.5	93.0	49.5	37.4
52.5°	24.3	27.3	63.7	28.3	25.3
55°	18.2	19.2	34.4	20.2	19.2
57.5°	14.1	15.2	18.2	15.2	14.1
60°	11.1	11.1	13.1	12.1	11.1
62.5°	8.1	8.1	9.1	8.1	8.1
65°	6.1	6.1	6.1	6.1	6.1
67.5°	3.0	4.0	4.0	4.0	4.0
70°	3.0	2.0	2.0	2.0	3.0
72.5°	2.0	1.0	1.0	1.0	1.0
75°	0.0	0.0	1.0	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)