

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: P747601

Luminaire Tested: LD4D40BD010-EU4DR3040509050-4LBSQW1B

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P747601  
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: LD4D40BD010-EU4DR3040509050-4LBSQW1B  
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**

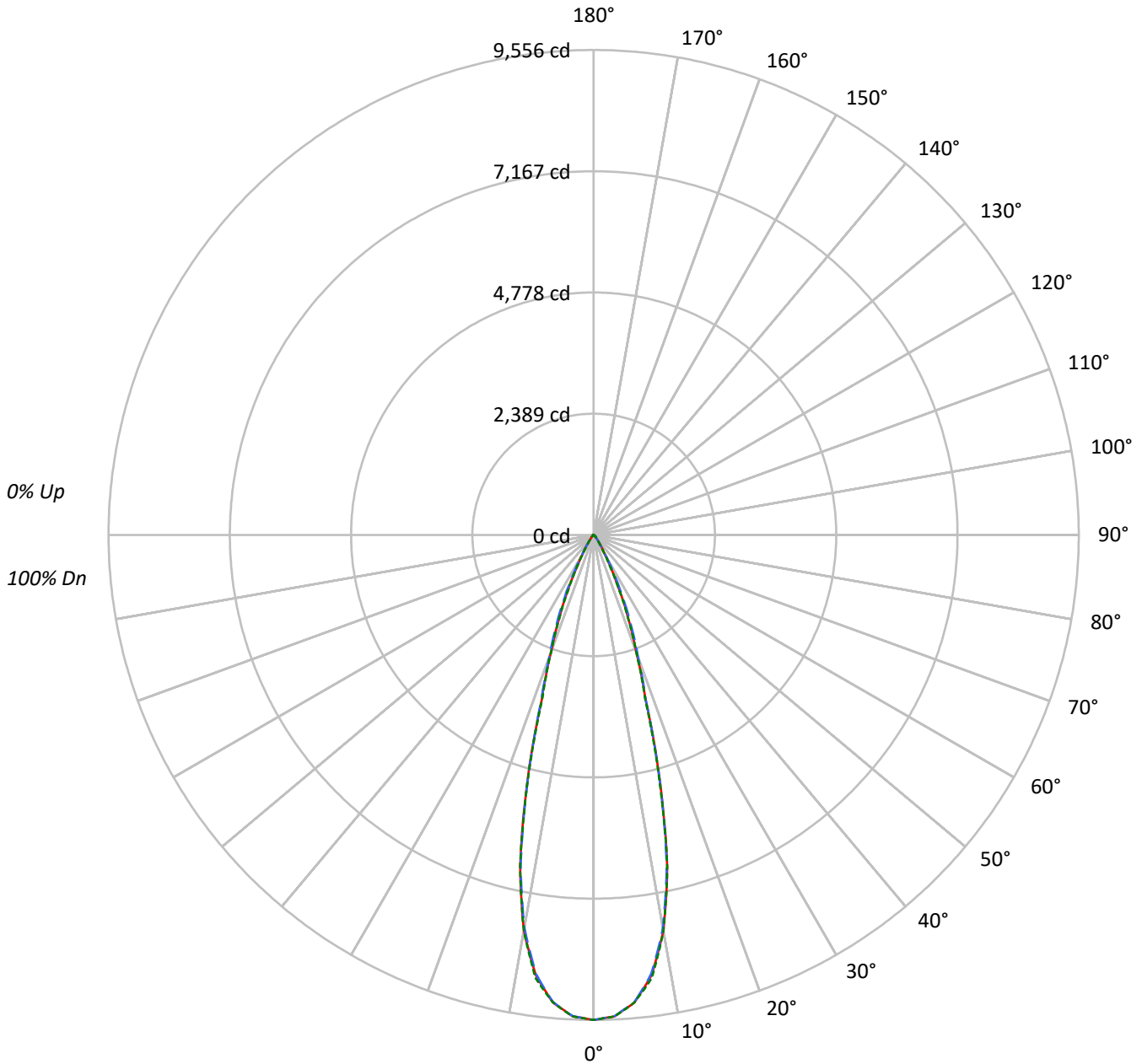
Lumens per Lamp: N/A  
Luminaire Lumens: 2972.0 lumens  
Efficiency: N/A  
Efficacy: 84.4 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
CIE Type: Direct

Input Watts (W): 35.2  
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: P747601  
CATALOG NUMBER: LD4D40BD010-EU4DR3040509050-4LBSQW1B

### Luminous Intensity Polar Plot





TEST NUMBER: P747601

CATALOG NUMBER: LD4D40BD010-EU4DR3040509050-4LBSQW1B

**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°	731472	731472	731472
5°	710477	709648	710508
10°	615381	611037	615234
15°	401503	399348	397343
20°	199648	207142	199379
25°	100571	113408	98510
30°	40268	43874	35080
35°	18679	17885	14997
40°	8064	8953	7594
45°	5683	7058	5737
50°	1953	5144	2072
55°	1121	2135	1188
60°	796	934	796
65°	507	507	507
70°	313	201	313
75°	0	148	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 7058 cd/sqm



TEST NUMBER: P747601

CATALOG NUMBER: LD4D40BD010-EU4DR3040509050-4LBSQW1B

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	840.3	28.3
10°-20°	1353.4	45.5
20°-30°	584.8	19.7
30°-40°	133.3	4.5
40°-50°	45.8	1.5
50°-60°	11.2	0.4
60°-70°	2.9	0.1
70°-80°	0.3	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°	2778.5	93.5
0°-40°	2911.8	98.0
0°-60°	2968.8	99.9
0°-90°	2972.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2972.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9556	9556	9556	9556	9556	
5°	9247	9238	9236	9255	9247	841
15°	5067	5006	5040	5023	5014	1357
25°	1191	1236	1343	1204	1166	570
35°	200	204	191	190	160	136
45°	52	65	65	65	53	37
55°	8	9	16	9	9	8
65°	3	3	3	3	3	3
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P747601

CATALOG NUMBER: LD4D40BD010-EU4DR3040509050-4LBSQW1B

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	9556.3	9556.3	9556.3	9556.3	9556.3
2.5°	9493.0	9486.4	9490.2	9494.9	9496.7
5°	9246.7	9237.7	9235.9	9255.1	9247.1
7.5°	8749.8	8737.1	8717.9	8761.5	8802.3
10°	7917.5	7903.4	7861.6	7882.3	7915.6
12.5°	6688.7	6643.2	6642.2	6707.9	6699.0
15°	5066.7	5005.7	5039.5	5023.1	5014.2
17.5°	3407.2	3383.7	3428.8	3415.2	3356.5
20°	2451.0	2457.1	2543.0	2499.8	2447.7
22.5°	1788.5	1810.6	1912.4	1801.2	1760.4
25°	1190.8	1235.8	1342.8	1204.4	1166.4
27.5°	732.4	753.0	861.4	723.0	702.4
30°	455.6	445.3	496.4	426.0	396.9
32.5°	298.9	285.7	302.2	271.2	247.7
35°	199.9	204.1	191.4	190.0	160.5
37.5°	124.8	143.6	126.7	135.1	103.2
40°	80.7	104.2	89.6	99.0	76.0
42.5°	66.2	80.2	73.7	78.4	67.6
45°	52.5	65.2	65.2	65.2	53.0
47.5°	29.1	43.6	55.8	44.6	31.0
50°	16.4	22.1	43.2	23.0	17.4
52.5°	11.3	12.7	29.6	13.1	11.7
55°	8.4	8.9	16.0	9.4	8.9
57.5°	6.6	7.0	8.4	7.0	6.6
60°	5.2	5.2	6.1	5.6	5.2
62.5°	3.8	3.8	4.2	3.8	3.8
65°	2.8	2.8	2.8	2.8	2.8
67.5°	1.4	1.9	1.9	1.9	1.9
70°	1.4	0.9	0.9	0.9	1.4
72.5°	0.9	0.5	0.5	0.5	0.5
75°	0.0	0.0	0.5	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)