

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: P747592

Luminaire Tested: LD4D40BD010-EU4DR3040509050-4LBCSSQMW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P747592
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-EU4DR3040509050-4LBCSSQMW
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

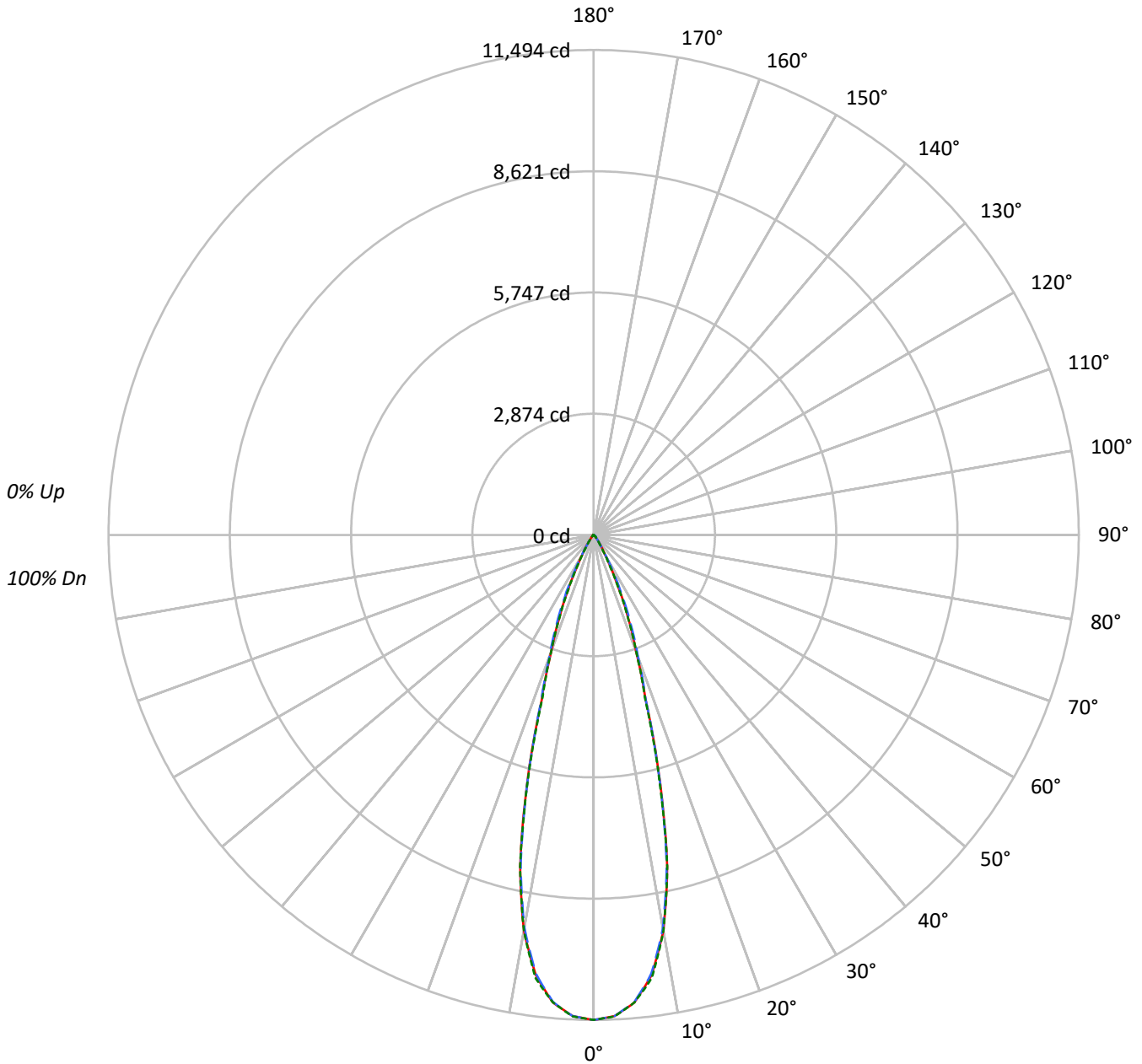
Lumens per Lamp: N/A
Luminaire Lumens: 3574.5 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

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



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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°	879759	879759	879759
5°	854506	853507	854552
10°	740129	734913	739958
15°	482902	480303	477894
20°	240123	249133	239798
25°	120958	136397	118475
30°	48426	52766	42195
35°	22464	21510	18034
40°	9702	10771	9133
45°	6841	8487	6906
50°	2358	6180	2489
55°	1361	2562	1428
60°	949	1118	949
65°	616	616	616
70°	380	246	380
75°	0	177	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 8487 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1010.7	28.3
10°-20°	1627.7	45.5
20°-30°	703.4	19.7
30°-40°	160.3	4.5
40°-50°	55.0	1.5
50°-60°	13.5	0.4
60°-70°	3.5	0.1
70°-80°	0.4	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°	3341.8	93.5
0°-40°	3502.1	98.0
0°-60°	3570.6	99.9
0°-90°	3574.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3574.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11494	11494	11494	11494	11494	
5°	11121	11110	11108	11131	11122	1012
15°	6094	6020	6061	6041	6031	1632
25°	1432	1486	1615	1449	1403	686
35°	240	246	230	228	193	163
45°	63	78	78	78	64	45
55°	10	11	19	11	11	10
65°	3	3	3	3	3	3
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°	11493.6	11493.6	11493.6	11493.6	11493.6
2.5°	11417.5	11409.6	11414.1	11419.7	11422.0
5°	11121.2	11110.5	11108.2	11131.4	11121.8
7.5°	10523.6	10508.4	10485.2	10537.7	10586.8
10°	9522.5	9505.6	9455.4	9480.2	9520.3
12.5°	8044.6	7989.9	7988.8	8067.8	8057.1
15°	6093.9	6020.5	6061.1	6041.4	6030.7
17.5°	4097.9	4069.7	4123.9	4107.5	4037.0
20°	2947.9	2955.2	3058.5	3006.6	2943.9
22.5°	2151.1	2177.6	2300.1	2166.3	2117.2
25°	1432.2	1486.4	1615.0	1448.6	1402.8
27.5°	880.9	905.7	1036.1	869.6	844.8
30°	547.9	535.5	597.0	512.4	477.4
32.5°	359.5	343.7	363.4	326.2	297.9
35°	240.4	245.5	230.2	228.5	193.0
37.5°	150.1	172.7	152.4	162.5	124.1
40°	97.1	125.3	107.8	119.1	91.4
42.5°	79.6	96.5	88.6	94.2	81.3
45°	63.2	78.4	78.4	78.4	63.8
47.5°	35.0	52.5	67.2	53.6	37.2
50°	19.8	26.5	51.9	27.7	20.9
52.5°	13.5	15.2	35.6	15.8	14.1
55°	10.2	10.7	19.2	11.3	10.7
57.5°	7.9	8.5	10.2	8.5	7.9
60°	6.2	6.2	7.3	6.8	6.2
62.5°	4.5	4.5	5.1	4.5	4.5
65°	3.4	3.4	3.4	3.4	3.4
67.5°	1.7	2.3	2.3	2.3	2.3
70°	1.7	1.1	1.1	1.1	1.7
72.5°	1.1	0.6	0.6	0.6	0.6
75°	0.0	0.0	0.6	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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