

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: P747548

Luminaire Tested: LD4D40BD010-EU4DR3040509027-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P747548
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-EU4DR3040509027-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3568.0 lumens
Efficiency: N/A
Efficacy: 101.4 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 (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

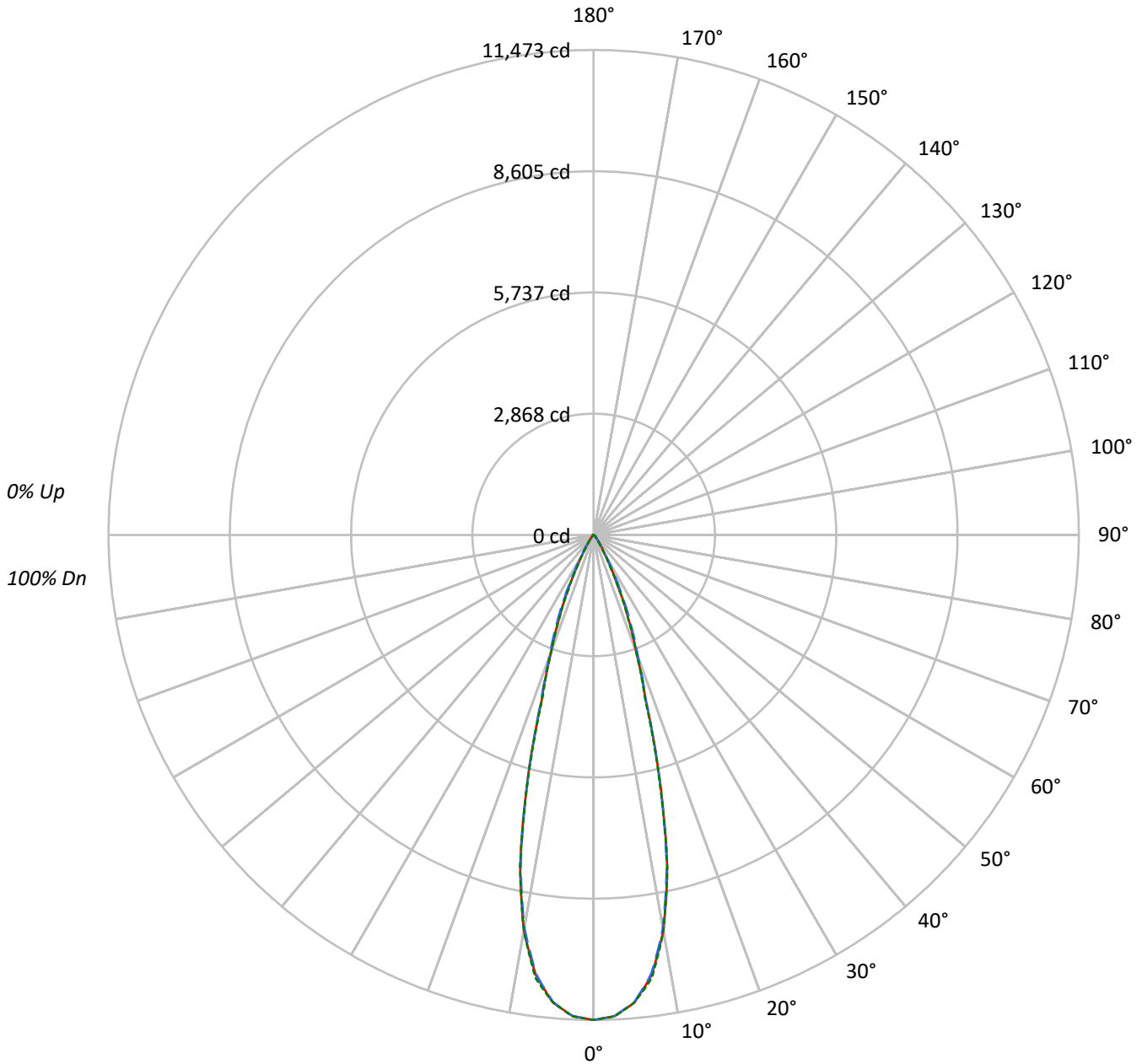


Downlight

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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°	878159	878159	878159
5°	852954	851955	852992
10°	738784	733577	738613
15°	482023	479431	477022
20°	239684	248676	239366
25°	120739	136152	118264
30°	48338	52668	42115
35°	22426	21473	17997
40°	9682	10751	9123
45°	6830	8476	6885
50°	2346	6168	2477
55°	1348	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: 8476 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1008.9	28.3
10°-20°	1624.8	45.5
20°-30°	702.1	19.7
30°-40°	160.0	4.5
40°-50°	54.9	1.5
50°-60°	13.4	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°	3335.7	93.5
0°-40°	3495.7	98.0
0°-60°	3564.1	99.9
0°-90°	3568.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3568.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11473	11473	11473	11473	11473	
5°	11101	11090	11088	11111	11102	1010
15°	6083	6010	6050	6030	6020	1629
25°	1430	1484	1612	1446	1400	684
35°	240	245	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°	11472.7	11472.7	11472.7	11472.7	11472.7
2.5°	11396.7	11388.8	11393.3	11398.9	11401.2
5°	11101.0	11090.3	11088.0	11111.1	11101.5
7.5°	10504.5	10489.2	10466.2	10518.5	10567.5
10°	9505.2	9488.3	9438.2	9463.0	9503.0
12.5°	8030.0	7975.4	7974.2	8053.1	8042.4
15°	6082.8	6009.5	6050.1	6030.4	6019.7
17.5°	4090.5	4062.3	4116.4	4100.1	4029.6
20°	2942.5	2949.9	3052.9	3001.1	2938.6
22.5°	2147.2	2173.7	2295.9	2162.4	2113.4
25°	1429.6	1483.7	1612.1	1445.9	1400.3
27.5°	879.3	904.1	1034.2	868.0	843.2
30°	546.9	534.5	595.9	511.5	476.5
32.5°	358.8	343.0	362.7	325.6	297.4
35°	240.0	245.0	229.8	228.1	192.6
37.5°	149.8	172.4	152.1	162.2	123.9
40°	96.9	125.0	107.6	118.9	91.3
42.5°	79.4	96.3	88.4	94.1	81.1
45°	63.1	78.3	78.3	78.3	63.6
47.5°	34.9	52.4	67.0	53.5	37.2
50°	19.7	26.5	51.8	27.6	20.8
52.5°	13.5	15.2	35.5	15.8	14.1
55°	10.1	10.7	19.2	11.3	10.7
57.5°	7.9	8.4	10.1	8.4	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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