

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: P747561

Luminaire Tested: LD4D40BD010-EU4DR3040509030-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P747561
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-EU4DR3040509030-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3675.8 lumens
Efficiency: N/A
Efficacy: 104.4 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

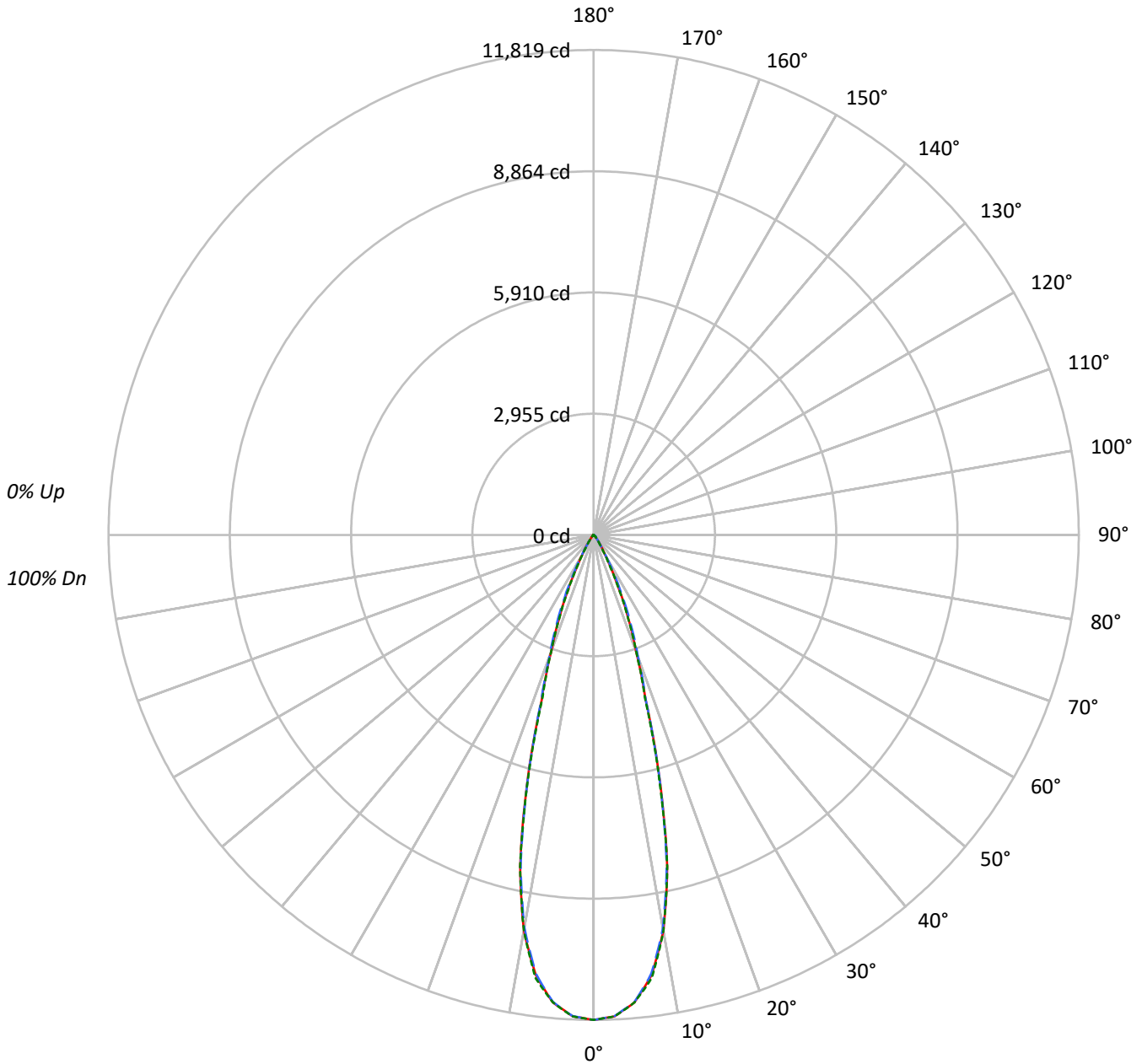


Downlight

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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°	904697	904697	904697
5°	878725	877703	878771
10°	761114	755743	760928
15°	496588	493917	491437
20°	246933	256195	246599
25°	124387	140265	121837
30°	49805	54268	43388
35°	23099	22127	18548
40°	9972	11071	9393
45°	7036	8736	7101
50°	2417	6359	2560
55°	1388	2629	1468
60°	980	1148	980
65°	634	634	634
70°	380	269	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: 8736 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1039.3	28.3
10°-20°	1673.9	45.5
20°-30°	723.3	19.7
30°-40°	164.9	4.5
40°-50°	56.6	1.5
50°-60°	13.8	0.4
60°-70°	3.6	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°	3436.5	93.5
0°-40°	3601.4	98.0
0°-60°	3671.8	99.9
0°-90°	3675.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3675.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11819	11819	11819	11819	11819	
5°	11436	11425	11423	11447	11437	1040
15°	6267	6191	6233	6213	6202	1678
25°	1473	1528	1661	1490	1443	705
35°	247	252	237	235	198	168
45°	65	81	81	81	66	46
55°	10	11	20	12	11	10
65°	4	4	4	4	4	3
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11819.4	11819.4	11819.4	11819.4	11819.4
2.5°	11741.1	11733.0	11737.6	11743.4	11745.7
5°	11436.4	11425.4	11423.1	11446.9	11437.0
7.5°	10821.9	10806.2	10782.4	10836.4	10886.9
10°	9792.5	9775.0	9723.4	9748.9	9790.1
12.5°	8272.7	8216.4	8215.2	8296.5	8285.4
15°	6266.6	6191.2	6232.9	6212.6	6201.6
17.5°	4214.1	4185.1	4240.8	4224.0	4151.4
20°	3031.5	3039.0	3145.2	3091.8	3027.4
22.5°	2212.1	2239.4	2365.3	2227.7	2177.3
25°	1472.8	1528.5	1660.8	1489.6	1442.6
27.5°	905.8	931.4	1065.4	894.2	868.7
30°	563.5	550.7	614.0	526.9	490.9
32.5°	369.6	353.4	373.7	335.4	306.4
35°	247.2	252.4	236.8	235.0	198.5
37.5°	154.4	177.6	156.7	167.1	127.7
40°	99.8	128.8	110.8	122.4	94.0
42.5°	81.8	99.2	91.1	96.9	83.6
45°	65.0	80.7	80.7	80.7	65.6
47.5°	36.0	54.0	69.1	55.1	38.3
50°	20.3	27.3	53.4	28.4	21.5
52.5°	13.9	15.7	36.6	16.2	14.5
55°	10.4	11.0	19.7	11.6	11.0
57.5°	8.1	8.7	10.4	8.7	8.1
60°	6.4	6.4	7.5	7.0	6.4
62.5°	4.6	4.6	5.2	4.6	4.6
65°	3.5	3.5	3.5	3.5	3.5
67.5°	1.7	2.3	2.3	2.3	2.3
70°	1.7	1.2	1.2	1.2	1.7
72.5°	1.2	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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