

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: P751444

Luminaire Tested: LD4D65D010-EU4DR3055659027-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P751444
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: LD4D65D010-EU4DR3055659027-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF 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: 5626.7 lumens
Efficiency: N/A
Efficacy: 77.3 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): 72.8
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

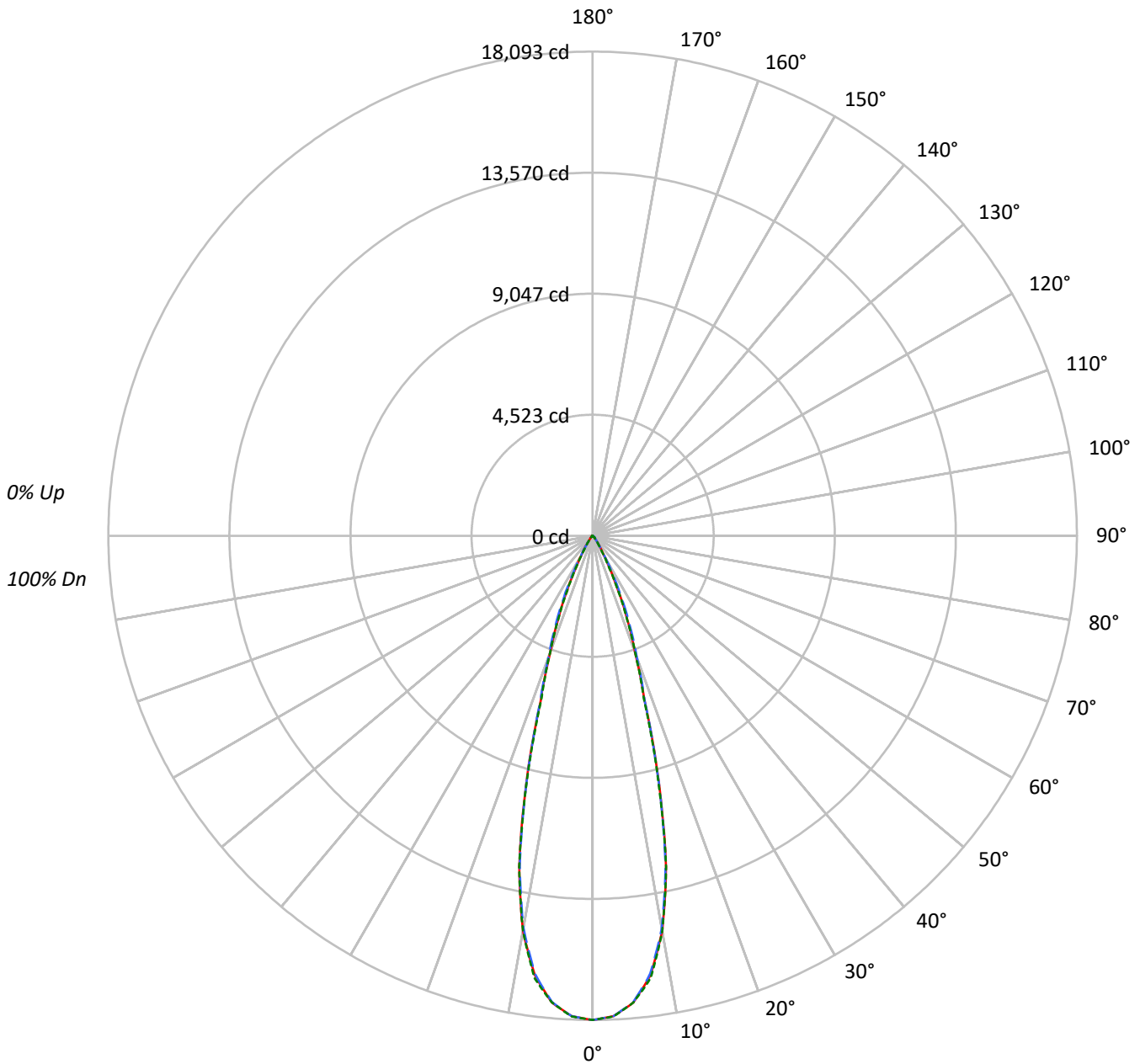


Downlight

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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°	1384869	1384869	1384869
5°	1345118	1343543	1345187
10°	1165078	1156863	1164798
15°	760152	756071	752267
20°	377987	392169	377482
25°	190407	214713	186505
30°	76232	83064	66421
35°	35359	33863	28388
40°	15268	16956	14379
45°	10771	13369	10868
50°	3703	9729	3918
55°	2135	4030	2255
60°	1500	1760	1500
65°	960	960	960
70°	604	403	604
75°	0	266	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 13369 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1591.0	28.3
10°-20°	2562.3	45.5
20°-30°	1107.2	19.7
30°-40°	252.4	4.5
40°-50°	86.7	1.5
50°-60°	21.2	0.4
60°-70°	5.5	0.1
70°-80°	0.6	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°	5260.5	93.5
0°-40°	5512.8	98.0
0°-60°	5620.7	99.9
0°-90°	5626.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5626.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18093	18093	18093	18093	18093	
5°	17506	17490	17486	17522	17507	1592
15°	9593	9477	9541	9510	9493	2569
25°	2254	2340	2542	2280	2208	1079
35°	378	386	362	360	304	257
45°	100	124	124	124	100	71
55°	16	17	30	18	17	16
65°	5	5	5	5	5	5
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°	18092.6	18092.6	18092.6	18092.6	18092.6
2.5°	17972.7	17960.3	17967.4	17976.3	17979.8
5°	17506.4	17489.5	17485.9	17522.4	17507.3
7.5°	16565.7	16541.7	16505.3	16587.9	16665.2
10°	14989.9	14963.2	14884.2	14923.2	14986.3
12.5°	12663.4	12577.3	12575.5	12699.9	12683.0
15°	9592.6	9477.1	9541.1	9510.0	9493.1
17.5°	6450.7	6406.3	6491.6	6465.8	6354.8
20°	4640.4	4652.0	4814.5	4732.8	4634.2
22.5°	3386.2	3427.9	3620.7	3410.1	3332.9
25°	2254.5	2339.8	2542.3	2280.2	2208.3
27.5°	1386.6	1425.7	1630.9	1368.9	1329.8
30°	862.5	843.0	939.8	806.6	751.5
32.5°	565.8	541.0	572.1	513.4	469.0
35°	378.4	386.4	362.4	359.8	303.8
37.5°	236.3	271.8	239.8	255.8	195.4
40°	152.8	197.2	169.7	187.4	143.9
42.5°	125.2	151.9	139.5	148.3	127.9
45°	99.5	123.5	123.5	123.5	100.4
47.5°	55.1	82.6	105.7	84.4	58.6
50°	31.1	41.7	81.7	43.5	32.9
52.5°	21.3	24.0	56.0	24.9	22.2
55°	16.0	16.9	30.2	17.8	16.9
57.5°	12.4	13.3	16.0	13.3	12.4
60°	9.8	9.8	11.5	10.7	9.8
62.5°	7.1	7.1	8.0	7.1	7.1
65°	5.3	5.3	5.3	5.3	5.3
67.5°	2.7	3.6	3.6	3.6	3.6
70°	2.7	1.8	1.8	1.8	2.7
72.5°	1.8	0.9	0.9	0.9	0.9
75°	0.0	0.0	0.9	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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