

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: P746014

Luminaire Tested: LD4D30D010-EU4DR3020359035-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P746014
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: LD4D30D010-EU4DR3020359035-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2762.5 lumens
Efficiency: N/A
Efficacy: 95.3 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): 29
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

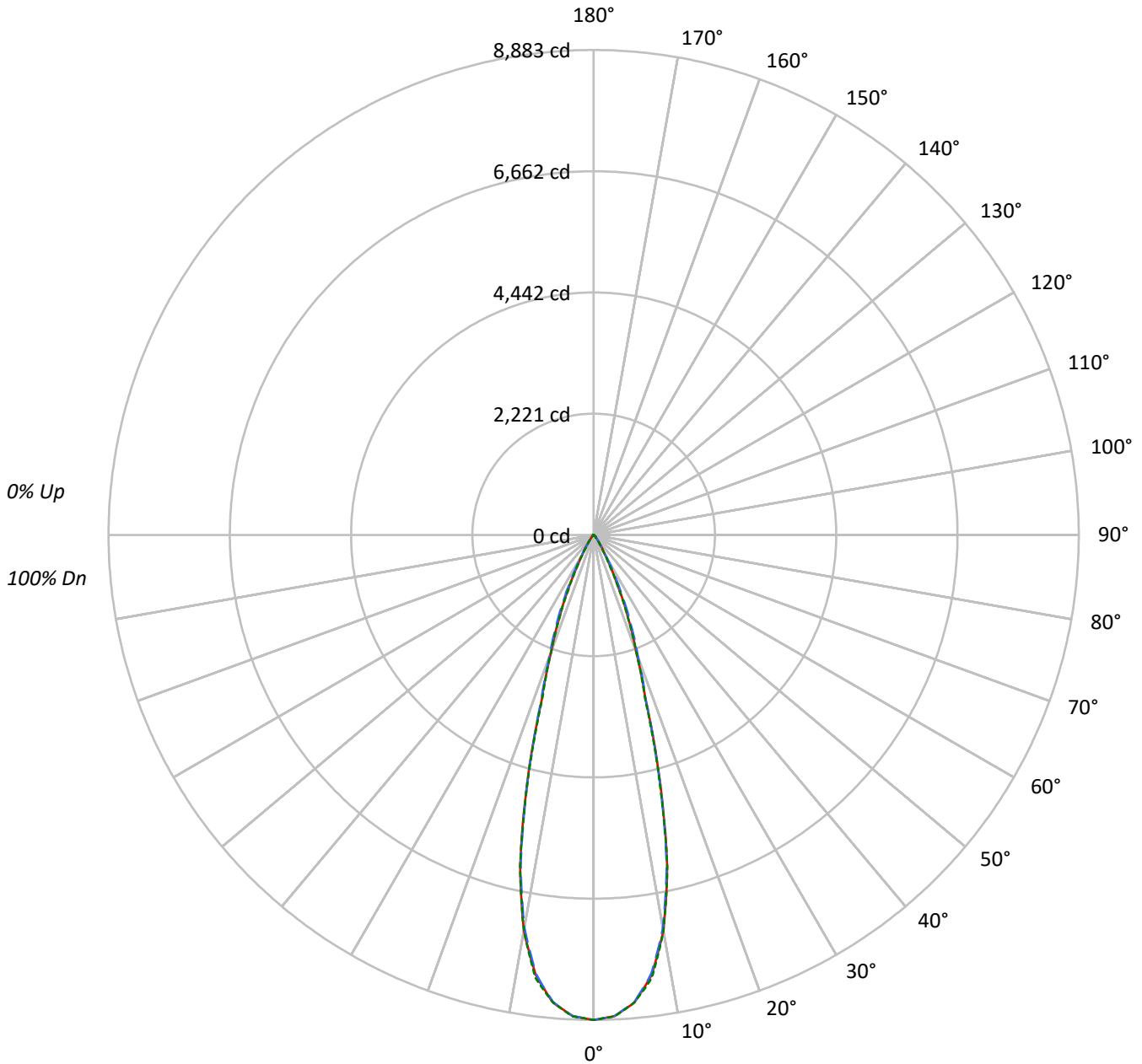


Downlight



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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°	679927	679927	679927
5°	660411	659635	660442
10°	572011	567977	571879
15°	373213	371209	369338
20°	185581	192545	185328
25°	93485	105418	91568
30°	37431	40781	32614
35°	17362	16633	13932
40°	7494	8323	7054
45°	5293	6560	5337
50°	1810	4775	1929
55°	1041	1975	1108
60°	735	873	735
65°	471	471	471
70°	291	201	291
75°	0	148	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 6560 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	781.1	28.3
10°-20°	1258.0	45.5
20°-30°	543.6	19.7
30°-40°	123.9	4.5
40°-50°	42.5	1.5
50°-60°	10.4	0.4
60°-70°	2.7	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°	2582.7	93.5
0°-40°	2706.6	98.0
0°-60°	2759.6	99.9
0°-90°	2762.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2762.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8883	8883	8883	8883	8883	
5°	8595	8587	8585	8603	8596	782
15°	4710	4653	4684	4669	4661	1261
25°	1107	1149	1248	1120	1084	530
35°	186	190	178	177	149	126
45°	49	61	61	61	49	35
55°	8	8	15	9	8	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



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8882.9	8882.9	8882.9	8882.9	8882.9
2.5°	8824.0	8817.9	8821.4	8825.7	8827.5
5°	8595.1	8586.8	8585.0	8602.9	8595.5
7.5°	8133.2	8121.4	8103.5	8144.1	8182.0
10°	7359.5	7346.4	7307.6	7326.8	7357.8
12.5°	6217.3	6175.0	6174.2	6235.2	6226.9
15°	4709.7	4653.0	4684.4	4669.1	4660.8
17.5°	3167.1	3145.3	3187.2	3174.5	3120.0
20°	2278.3	2284.0	2363.8	2323.7	2275.2
22.5°	1662.5	1683.0	1777.6	1674.3	1636.3
25°	1106.9	1148.8	1248.2	1119.5	1084.2
27.5°	680.8	700.0	800.7	672.1	652.9
30°	423.5	413.9	461.4	396.0	369.0
32.5°	277.8	265.6	280.9	252.1	230.3
35°	185.8	189.7	178.0	176.6	149.1
37.5°	116.0	133.4	117.7	125.6	96.0
40°	75.0	96.8	83.3	92.0	70.6
42.5°	61.5	74.6	68.5	72.8	62.8
45°	48.9	60.6	60.6	60.6	49.3
47.5°	27.0	40.6	51.9	41.4	28.8
50°	15.2	20.5	40.1	21.4	16.2
52.5°	10.5	11.8	27.5	12.2	10.9
55°	7.8	8.3	14.8	8.7	8.3
57.5°	6.1	6.5	7.8	6.5	6.1
60°	4.8	4.8	5.7	5.2	4.8
62.5°	3.5	3.5	4.0	3.5	3.5
65°	2.6	2.6	2.6	2.6	2.6
67.5°	1.3	1.7	1.7	1.7	1.7
70°	1.3	0.9	0.9	0.9	1.3
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



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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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