

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: P745039

Luminaire Tested: LD4D25D010-EU4DR3020359024-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P745039
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: LD4D25D010-EU4DR3020359024-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2031.2 lumens
Efficiency: N/A
Efficacy: 80.9 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): 25.1
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

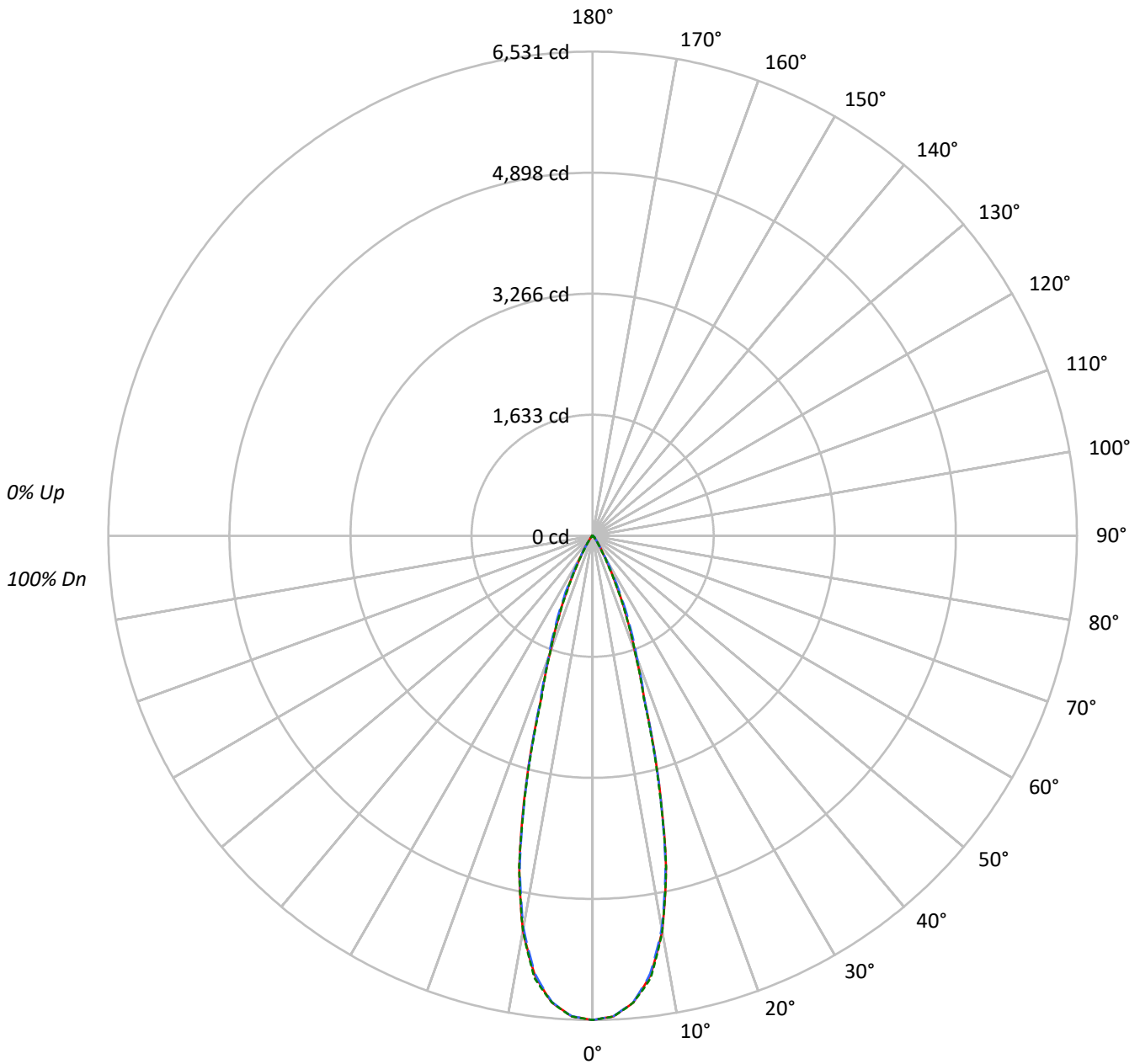


Downlight



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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	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°	499936	499936	499936
5°	485579	485018	485602
10°	420589	417620	420488
15°	274413	272939	271568
20°	136455	141570	136267
25°	68739	77514	67329
30°	27514	29980	23979
35°	12764	12222	10251
40°	5516	6115	5196
45°	3886	4828	3919
50°	1334	3513	1417
55°	774	1455	814
60°	551	643	551
65°	344	344	344
70°	224	134	224
75°	0	89	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 4828 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	574.3	28.3
10°-20°	925.0	45.5
20°-30°	399.7	19.7
30°-40°	91.1	4.5
40°-50°	31.3	1.5
50°-60°	7.6	0.4
60°-70°	2.0	0.1
70°-80°	0.2	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°	1899.0	93.5
0°-40°	1990.1	98.0
0°-60°	2029.1	99.9
0°-90°	2031.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2031.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6531	6531	6531	6531	6531	
5°	6320	6314	6312	6326	6320	575
15°	3463	3421	3444	3433	3427	927
25°	814	845	918	823	797	390
35°	137	140	131	130	110	93
45°	36	45	45	45	36	25
55°	6	6	11	6	6	6
65°	2	2	2	2	2	2
75°	0	0	0	0	0	0
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°	6531.4	6531.4	6531.4	6531.4	6531.4
2.5°	6488.1	6483.6	6486.1	6489.4	6490.7
5°	6319.7	6313.6	6312.4	6325.5	6320.0
7.5°	5980.1	5971.5	5958.3	5988.1	6016.0
10°	5411.3	5401.7	5373.1	5387.2	5410.0
12.5°	4571.5	4540.3	4539.7	4584.6	4578.5
15°	3462.9	3421.2	3444.3	3433.1	3427.0
17.5°	2328.7	2312.7	2343.4	2334.1	2294.0
20°	1675.2	1679.3	1738.0	1708.5	1672.9
22.5°	1222.4	1237.5	1307.1	1231.0	1203.1
25°	813.9	844.6	917.8	823.2	797.2
27.5°	500.6	514.7	588.8	494.2	480.0
30°	311.3	304.3	339.2	291.2	271.3
32.5°	204.3	195.3	206.5	185.3	169.3
35°	136.6	139.5	130.8	129.9	109.7
37.5°	85.3	98.1	86.6	92.4	70.5
40°	55.2	71.2	61.2	67.7	52.0
42.5°	45.2	54.8	50.4	53.6	46.2
45°	35.9	44.6	44.6	44.6	36.2
47.5°	19.9	29.9	38.2	30.5	21.1
50°	11.2	15.1	29.5	15.7	11.9
52.5°	7.7	8.7	20.2	9.0	8.0
55°	5.8	6.1	10.9	6.4	6.1
57.5°	4.5	4.8	5.8	4.8	4.5
60°	3.6	3.6	4.2	3.8	3.6
62.5°	2.6	2.6	2.9	2.6	2.6
65°	1.9	1.9	1.9	1.9	1.9
67.5°	1.0	1.3	1.3	1.3	1.3
70°	1.0	0.6	0.6	0.6	1.0
72.5°	0.6	0.3	0.3	0.3	0.3
75°	0.0	0.0	0.3	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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