

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: P744103

Luminaire Tested: LD4D20D010-EU4DR3020359024-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P744103
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: LD4D20D010-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: 1571.9 lumens
Efficiency: N/A
Efficacy: 68.0 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): 23.1
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



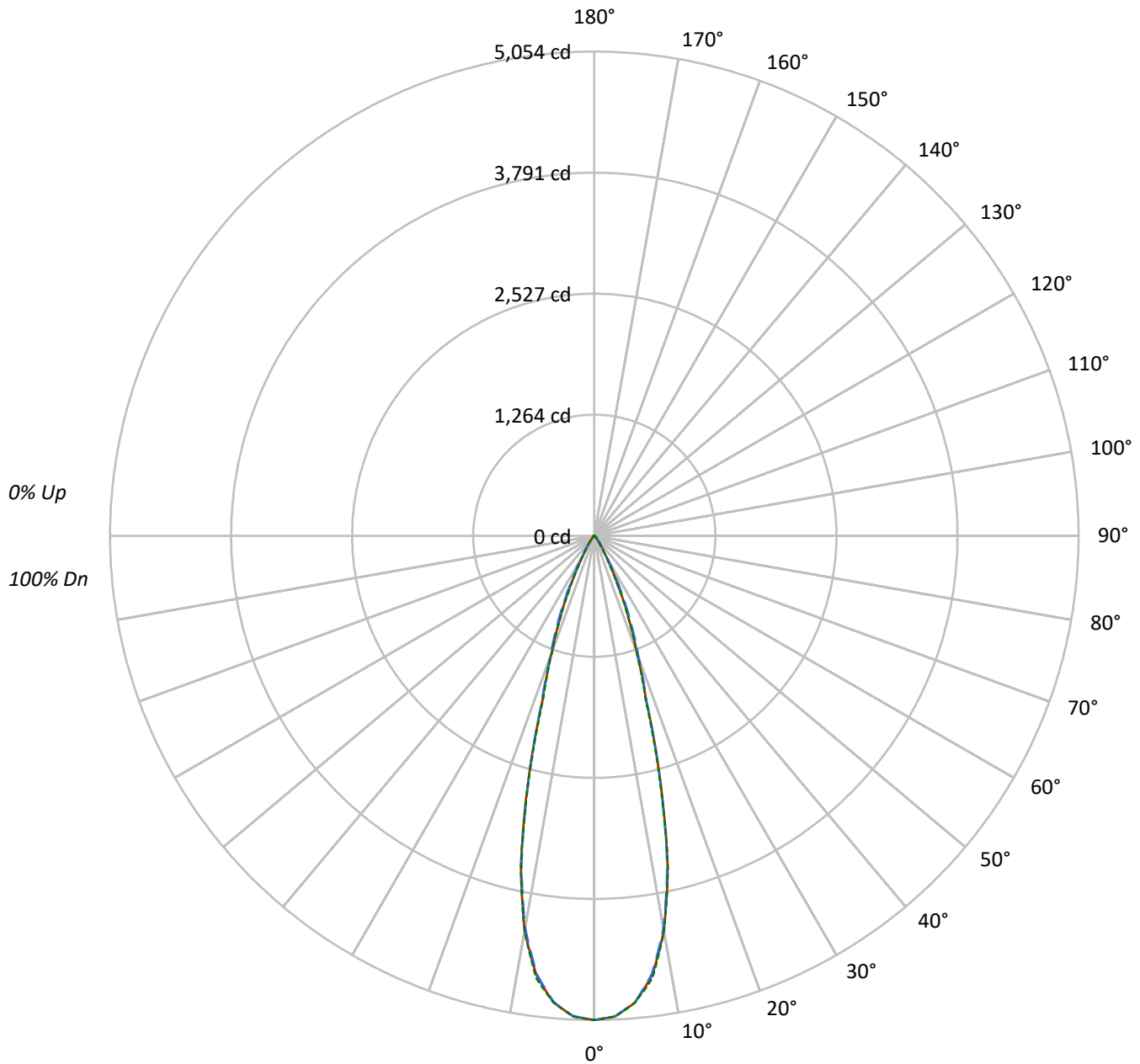
Downlight



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	386881	386881	386881
5°	375773	375335	375788
10°	325478	323185	325400
15°	212357	211216	210154
20°	105599	109558	105453
25°	53191	59981	52101
30°	21301	23201	18552
35°	9877	9456	7933
40°	4267	4736	4017
45°	3009	3735	3031
50°	1036	2715	1096
55°	601	1121	627
60°	429	490	429
65°	272	272	272
70°	157	112	157
75°	0	59	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 3735 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	444.5	28.3
10°-20°	715.8	45.5
20°-30°	309.3	19.7
30°-40°	70.5	4.5
40°-50°	24.2	1.5
50°-60°	5.9	0.4
60°-70°	1.5	0.1
70°-80°	0.1	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°	1469.6	93.5
0°-40°	1540.1	98.0
0°-60°	1570.2	99.9
0°-90°	1571.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1571.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5054	5054	5054	5054	5054	
5°	4891	4886	4885	4895	4891	445
15°	2680	2648	2665	2657	2652	718
25°	630	654	710	637	617	301
35°	106	108	101	100	85	72
45°	28	34	34	34	28	20
55°	4	5	8	5	5	4
65°	2	2	2	2	2	1
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°	5054.4	5054.4	5054.4	5054.4	5054.4
2.5°	5020.9	5017.4	5019.4	5021.9	5022.9
5°	4890.6	4885.9	4884.9	4895.1	4890.8
7.5°	4627.8	4621.1	4610.9	4634.0	4655.6
10°	4187.6	4180.1	4158.1	4169.0	4186.6
12.5°	3537.7	3513.6	3513.1	3547.8	3543.1
15°	2679.8	2647.5	2665.4	2656.7	2652.0
17.5°	1802.1	1789.7	1813.5	1806.3	1775.3
20°	1296.4	1299.6	1345.0	1322.1	1294.6
22.5°	945.9	957.6	1011.5	952.6	931.0
25°	629.8	653.6	710.2	637.0	616.9
27.5°	387.4	398.3	455.6	382.4	371.5
30°	241.0	235.5	262.5	225.3	209.9
32.5°	158.1	151.1	159.8	143.4	131.0
35°	105.7	107.9	101.2	100.5	84.9
37.5°	66.0	75.9	67.0	71.4	54.6
40°	42.7	55.1	47.4	52.4	40.2
42.5°	35.0	42.5	39.0	41.4	35.8
45°	27.8	34.5	34.5	34.5	28.0
47.5°	15.4	23.1	29.5	23.5	16.4
50°	8.7	11.7	22.8	12.1	9.2
52.5°	6.0	6.7	15.6	6.9	6.2
55°	4.5	4.7	8.4	5.0	4.7
57.5°	3.5	3.7	4.5	3.7	3.5
60°	2.8	2.8	3.2	3.0	2.8
62.5°	2.0	2.0	2.2	2.0	2.0
65°	1.5	1.5	1.5	1.5	1.5
67.5°	0.7	1.0	1.0	1.0	1.0
70°	0.7	0.5	0.5	0.5	0.7
72.5°	0.5	0.2	0.2	0.2	0.2
75°	0.0	0.0	0.2	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



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)