

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: P779075

Luminaire Tested: LER4D05D010-EC4DR600210IC9027-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P779075
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-60)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D05D010-EC4DR600210IC9027-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 617.3 lumens
Efficiency: N/A
Efficacy: 82.3 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.92
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 7.5
Input Voltage (V): NR
Input Current (Ain): 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



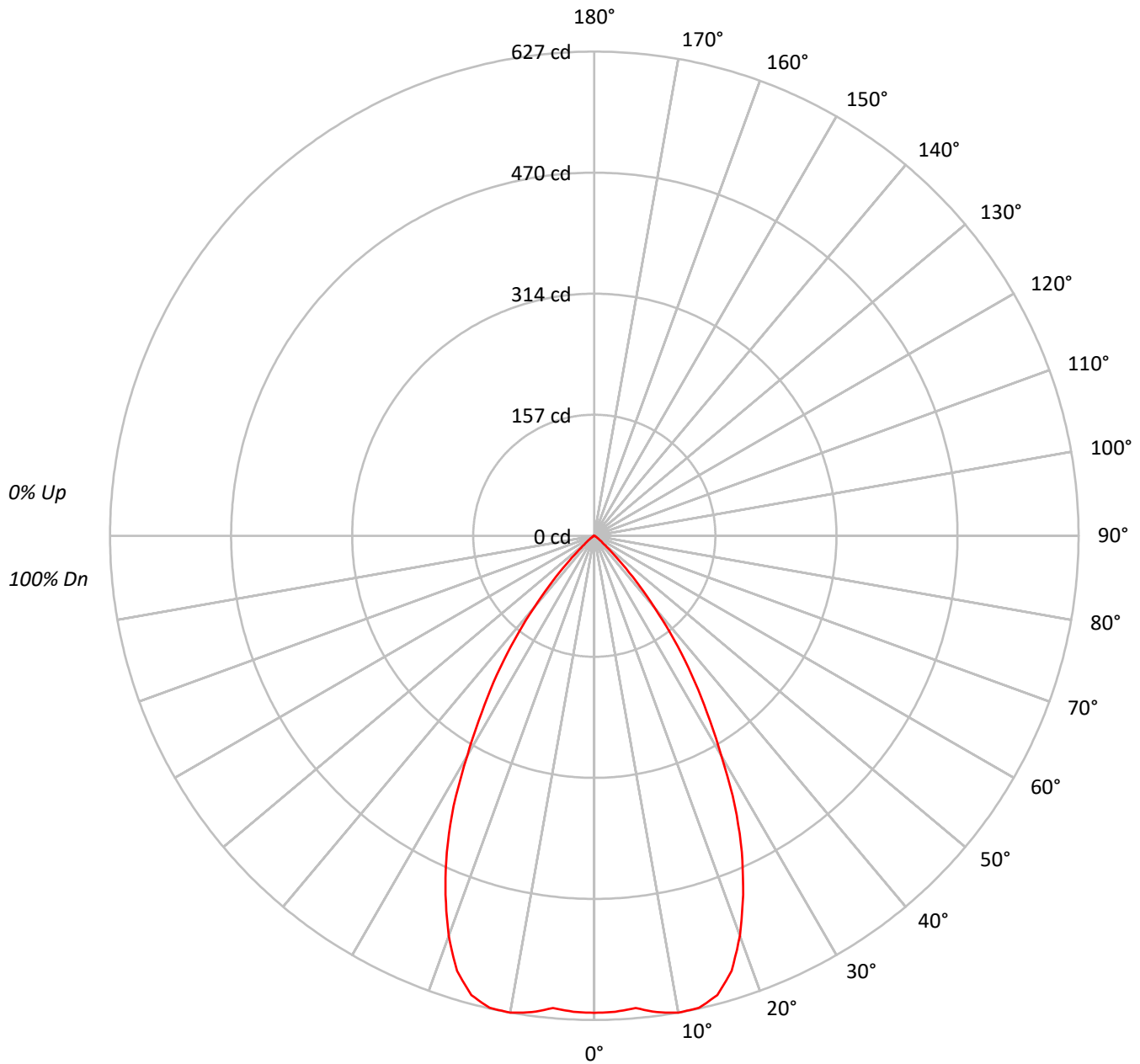
Downlight



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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				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	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94						
2	108	103	99	96	106	101	98	95	98	95	92	95	93	90	92	90	89	87						
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81						
4	97	90	84	80	95	88	83	79	86	82	78	84	81	78	82	79	77	75						
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70						
6	87	79	73	68	86	78	72	68	76	71	68	75	70	67	74	70	67	65						
7	83	74	68	63	82	73	67	63	72	67	63	71	66	63	69	65	62	61						
8	79	69	63	59	78	69	63	59	68	63	59	67	62	59	66	61	58	57						
9	75	65	59	55	74	65	59	55	64	59	55	63	58	55	62	58	55	53						
10	72	62	56	52	71	61	56	52	61	55	52	60	55	52	59	55	52	50						

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	67501
5°	67331
10°	69574
15°	69645
20°	64078
25°	54503
30°	41533
35°	29371
40°	17244
45°	6953
50°	2329
55°	1105
60°	459
65°	78
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6953 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.2	9.6
10°-20°	170.6	27.6
20°-30°	204.2	33.1
30°-40°	136.5	22.1
40°-50°	40.5	6.6
50°-60°	5.8	0.9
60°-70°	0.6	0.1
70°-80°	0.0	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°	433.9	70.3
0°-40°	570.5	92.4
0°-60°	616.8	99.9
0°-90°	617.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	617.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	618	
5°	614	59
15°	616	171
25°	452	204
35°	220	137
45°	45	40
55°	6	6
65°	0	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	617.8
2.5°	617.0
5°	613.9
7.5°	622.3
10°	627.1
12.5°	626.2
15°	615.7
17.5°	590.9
20°	551.1
22.5°	503.4
25°	452.1
27.5°	394.4
30°	329.2
32.5°	271.0
35°	220.2
37.5°	169.2
40°	120.9
42.5°	79.8
45°	45.0
47.5°	23.0
50°	13.7
52.5°	8.8
55°	5.8
57.5°	3.8
60°	2.1
62.5°	0.9
65°	0.3
67.5°	0.1
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)