

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: P778976

Luminaire Tested: LER4D05D010-EC4DR400210IC9027-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P778976
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-28)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D05D010-EC4DR400210IC9027-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 40° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 635.1 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.6
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



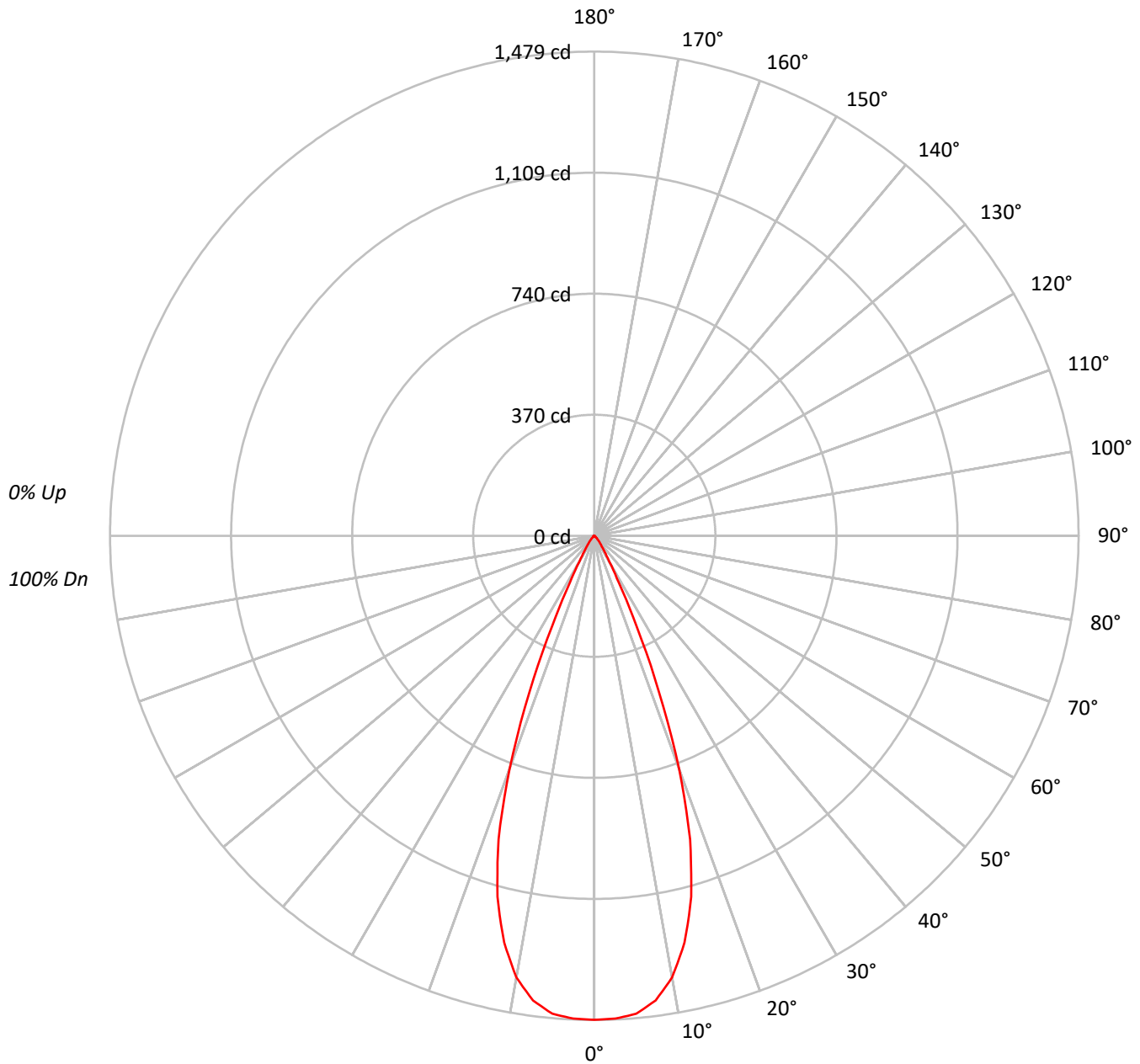
Downlight



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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					0
RW	70	50	30	10	70	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			100
1	115	112	110	108	112	110	108	107		106	105	103			103	101	100			96
2	110	106	103	100	108	105	102	99		102	99	97			99	97	95			92
3	106	101	97	94	104	100	96	93		97	94	92			95	93	90			88
4	102	97	92	89	101	95	91	88		93	90	87			92	89	86			84
5	99	92	88	84	97	91	87	84		90	86	83			88	85	83			81
6	95	88	84	80	94	88	83	80		86	82	80			85	82	79			77
7	92	85	80	77	91	84	80	77		83	79	76			82	79	76			74
8	89	82	77	74	88	81	77	74		80	76	73			79	76	73			72
9	86	79	74	71	85	78	74	71		77	73	71			76	73	70			69
10	83	76	71	68	82	75	71	68		75	71	68			74	70	68			67

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	161553
5°	160766
10°	151952
15°	129189
20°	88053
25°	36745
30°	11557
35°	5375
40°	2967
45°	1360
50°	663
55°	362
60°	197
65°	78
70°	32
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1360 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.9	21.5
10°-20°	306.6	48.3
20°-30°	153.5	24.2
30°-40°	28.2	4.4
40°-50°	7.8	1.2
50°-60°	1.8	0.3
60°-70°	0.4	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°	597.0	94.0
0°-40°	625.1	98.4
0°-60°	634.7	99.9
0°-90°	635.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	635.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1479	
5°	1466	137
15°	1142	307
25°	305	154
35°	40	28
45°	9	8
55°	2	2
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1478.6
2.5°	1476.4
5°	1465.8
7.5°	1431.9
10°	1369.6
12.5°	1272.6
15°	1142.1
17.5°	972.3
20°	757.3
22.5°	516.3
25°	304.8
27.5°	161.1
30°	91.6
32.5°	59.2
35°	40.3
37.5°	28.8
40°	20.8
42.5°	14.3
45°	8.8
47.5°	5.6
50°	3.9
52.5°	2.8
55°	1.9
57.5°	1.2
60°	0.9
62.5°	0.5
65°	0.3
67.5°	0.2
70°	0.1
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)