

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: P780510

Luminaire Tested: LER4D25D010-EC4DR4020359024-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P780510
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: LER4D25D010-EC4DR4020359024-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 40° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

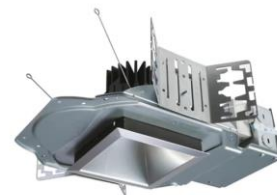
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2398.6 lumens
Efficiency: N/A
Efficacy: 95.6 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): 25.1
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



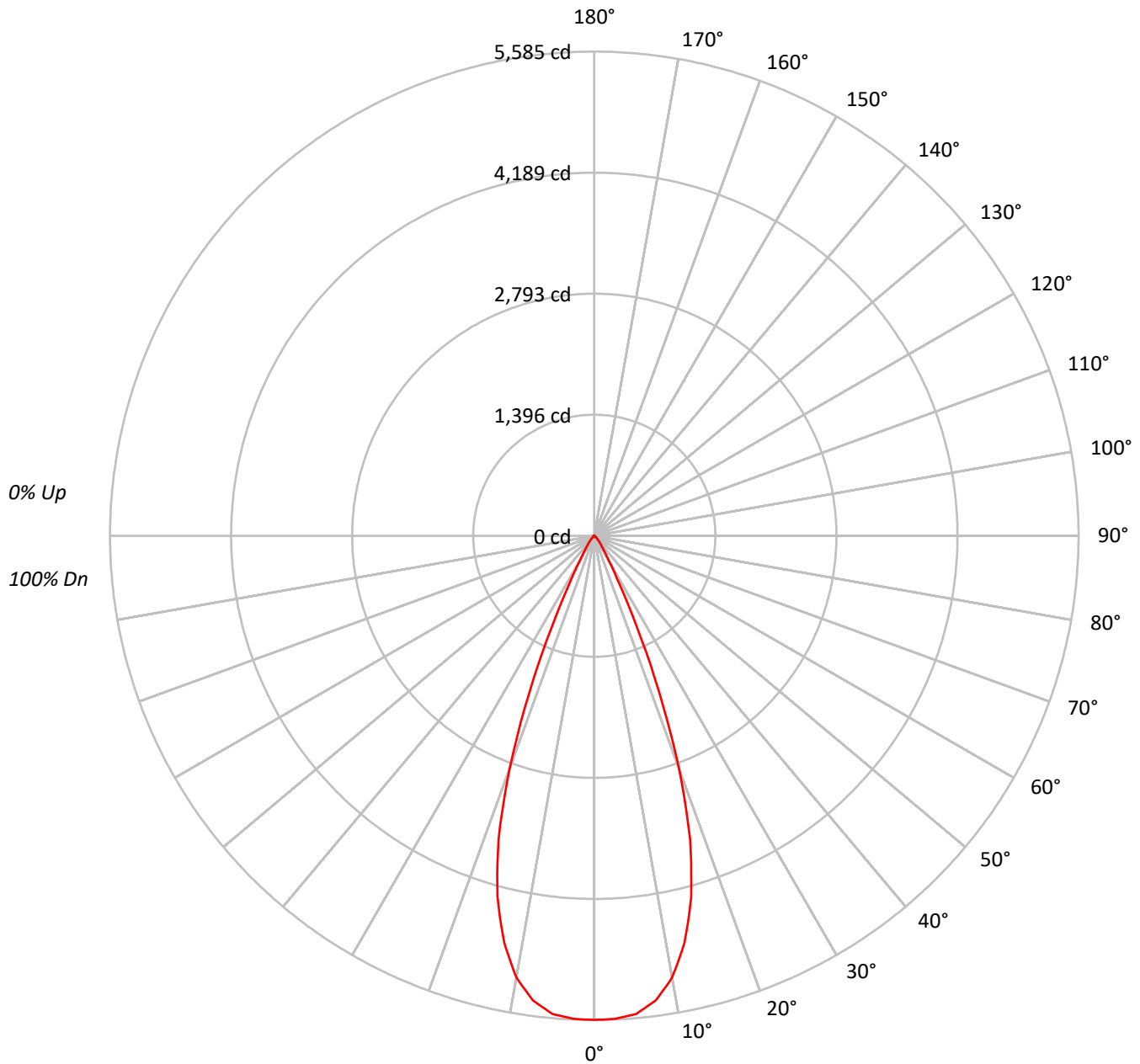
Downlight



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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	115	112	110	108	112	110	108	107	106	105	103	103	101	100	99	98	97	96						
2	110	106	103	100	108	105	102	99	102	99	97	99	97	95	96	95	93	92						
3	106	101	97	94	104	100	96	93	97	94	92	95	93	90	93	91	89	88						
4	102	97	92	89	101	95	91	88	93	90	87	92	89	86	90	87	85	84						
5	99	92	88	84	97	91	87	84	90	86	83	88	85	83	87	84	82	81						
6	95	88	84	80	94	88	83	80	86	82	80	85	82	79	84	81	79	77						
7	92	85	80	77	91	84	80	77	83	79	76	82	79	76	81	78	76	74						
8	89	82	77	74	88	81	77	74	80	76	73	79	76	73	78	75	73	72						
9	86	79	74	71	85	78	74	71	77	73	71	76	73	70	76	72	70	69						
10	83	76	71	68	82	75	71	68	75	71	68	74	70	68	73	70	68	67						

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	610178
5°	607211
10°	573947
15°	487933
20°	332564
25°	138760
30°	43627
35°	20274
40°	11211
45°	5145
50°	2499
55°	1372
60°	721
65°	259
70°	96
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5145 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	516.9	21.6
10°-20°	1158.1	48.3
20°-30°	579.7	24.2
30°-40°	106.3	4.4
40°-50°	29.3	1.2
50°-60°	6.9	0.3
60°-70°	1.3	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°	2254.8	94.0
0°-40°	2361.0	98.4
0°-60°	2397.3	99.9
0°-90°	2398.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2398.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5585	
5°	5536	517
15°	4314	1158
25°	1151	580
35°	152	106
45°	33	29
55°	7	7
65°	1	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5584.6
2.5°	5576.4
5°	5536.3
7.5°	5408.4
10°	5173.2
12.5°	4806.5
15°	4313.6
17.5°	3672.5
20°	2860.2
22.5°	1949.9
25°	1151.0
27.5°	608.4
30°	345.8
32.5°	223.5
35°	152.0
37.5°	108.6
40°	78.6
42.5°	53.9
45°	33.3
47.5°	21.2
50°	14.7
52.5°	10.4
55°	7.2
57.5°	4.6
60°	3.3
62.5°	1.9
65°	1.0
67.5°	0.6
70°	0.3
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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Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





— 0°-180°







(END OF REPORT)