

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: P777640

Luminaire Tested: LERS4D08D010-EC4DR200210IC9035-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P777640
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LERS4D08D010-EC4DR200210IC9035-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 20° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 823.7 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Spacing Criteria (0/90/45): 0.34 / 0.34 / 0.36
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 8.9
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



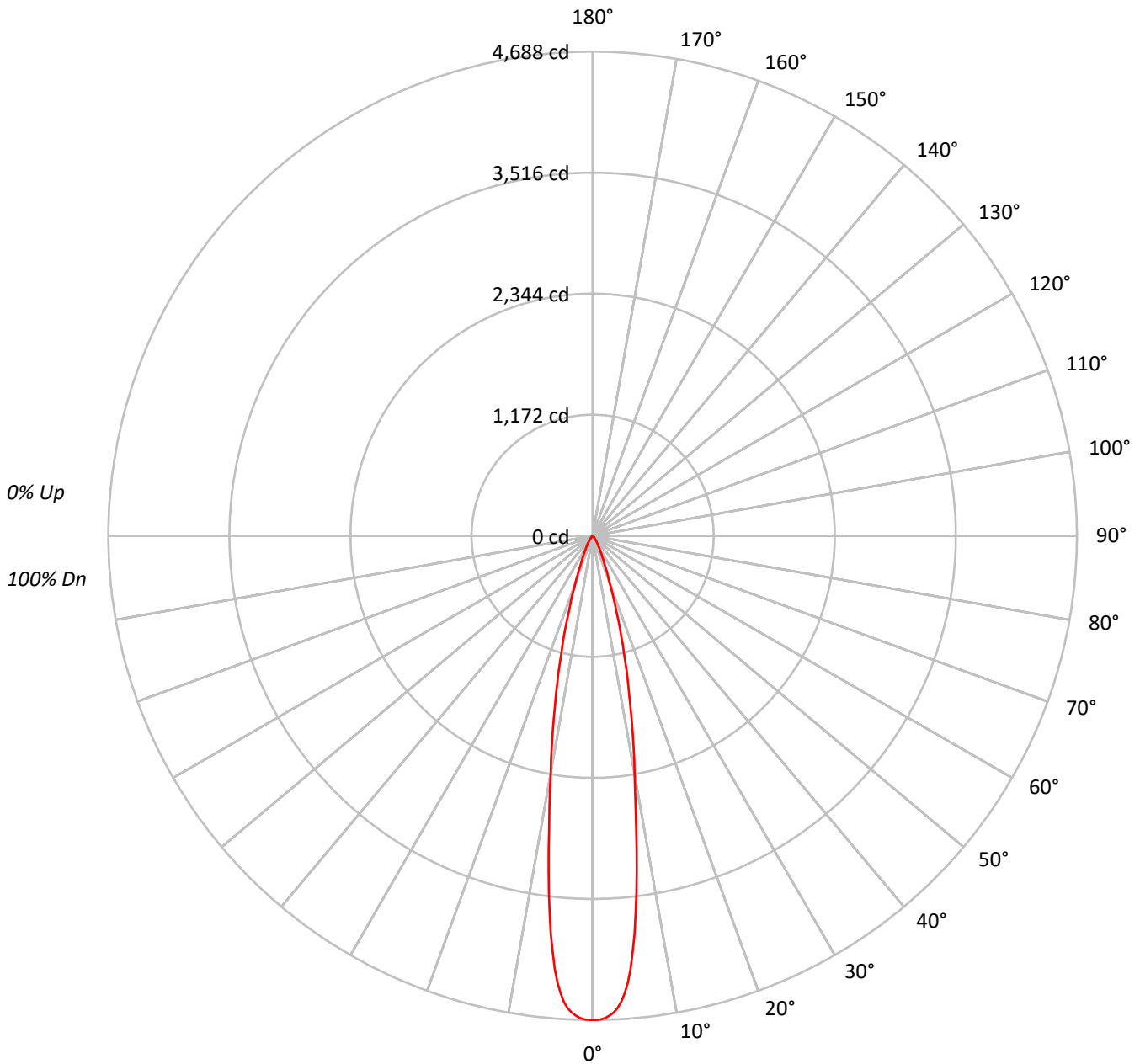
Downlight



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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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100															
1	115	113	111	109	113	111	109	108	107	106	104	103	102	101	100	99	98	97	97	98	98	97															
2	111	108	105	102	109	106	104	101	103	101	99	100	99	97	98	96	95	94	94	98	96	95															
3	108	103	100	97	106	102	99	96	100	97	95	97	95	93	95	93	92	91	91	98	96	95															
4	105	99	96	93	103	98	95	92	96	93	91	95	92	90	93	91	89	88	88	93	91	89															
5	102	96	92	89	100	95	91	89	94	90	88	92	89	87	91	88	86	85	85	91	88	86															
6	99	93	89	86	98	92	88	86	91	87	85	90	87	84	88	86	84	83	83	88	86	84															
7	96	90	86	83	95	89	86	83	88	85	82	87	84	82	86	84	82	81	81	86	84	82															
8	94	87	83	81	93	87	83	80	86	83	80	85	82	80	84	82	80	79	79	84	82	80															
9	91	85	81	78	91	85	81	78	84	80	78	83	80	78	82	80	78	77	77	82	80	78															
10	89	83	79	76	88	82	79	76	82	78	76	81	78	76	81	78	76	75	75	81	78	76															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	512258
5°	462151
10°	259381
15°	131847
20°	55823
25°	25775
30°	13638
35°	7349
40°	3937
45°	2318
50°	1343
55°	724
60°	459
65°	336
70°	128
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2318 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.8	40.5
10°-20°	328.7	39.9
20°-30°	107.4	13.0
30°-40°	36.6	4.4
40°-50°	12.3	1.5
50°-60°	3.7	0.4
60°-70°	1.2	0.2
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°	769.9	93.5
0°-40°	806.4	97.9
0°-60°	822.4	99.8
0°-90°	823.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	823.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4688	
5°	4214	334
15°	1166	329
25°	214	107
35°	55	37
45°	15	12
55°	4	4
65°	1	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4688.4
0.5°	4688.4
1°	4682.6
1.5°	4670.9
2°	4649.6
2.5°	4621.2
3°	4581.1
3.5°	4525.2
4°	4442.1
4.5°	4341.1
5°	4213.7
5.5°	4046.3
6°	3874.7
6.5°	3678.1
7°	3485.6
7.5°	3260.2
8°	3059.0
8.5°	2856.5
9°	2669.4
9.5°	2497.8
10°	2337.9
12.5°	1678.7
15°	1165.6
17.5°	761.5
20°	480.1
22.5°	311.0
25°	213.8
27.5°	150.3
30°	108.1
32.5°	77.7
35°	55.1
37.5°	38.4
40°	27.6
42.5°	20.0
45°	15.0
47.5°	11.7
50°	7.9
52.5°	5.0
55°	3.8
57.5°	2.9
60°	2.1
62.5°	1.7
65°	1.3



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CANDELA DISTRIBUTION (continued):

	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

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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67.5°		0.8
70°		0.4

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(END OF REPORT)