

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: P780156

Luminaire Tested: LER4D20D010-EC4DR2520359030-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P780156
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D20D010-EC4DR2520359030-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 25° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1623.7 lumens
Efficiency: N/A
Efficacy: 70.3 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.45
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 23.1
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



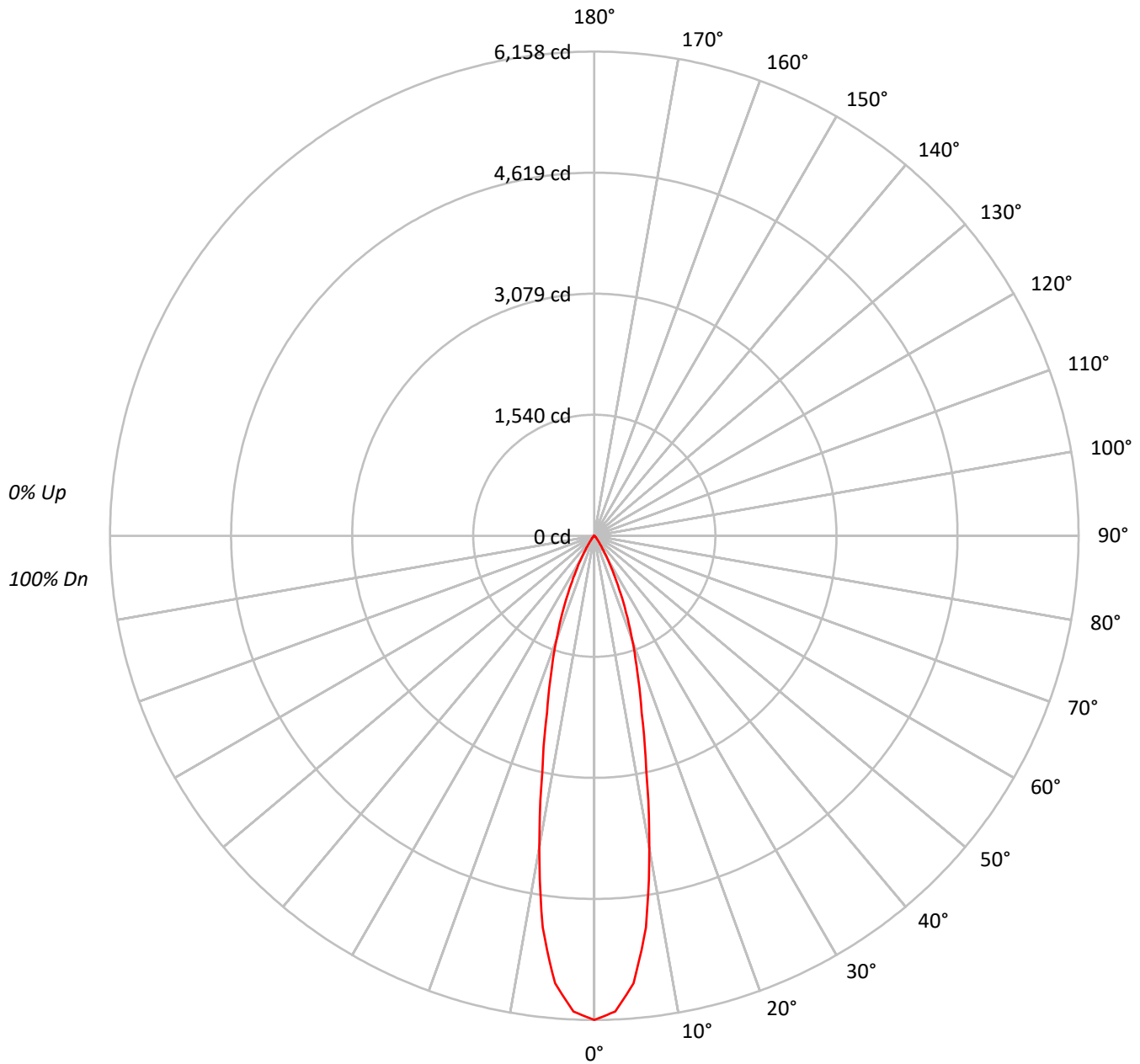
Downlight



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	115	113	111	109	112	110	109	107	106	105	104		103	102	101		99
2	111	107	104	101	109	105	102	100	102	100	98		99	97	96		97
3	107	102	98	95	105	101	97	94	98	95	93		96	93	91		94
4	103	97	93	90	102	96	93	90	94	91	89		93	90	88		91
5	100	93	89	86	98	93	89	86	91	87	85		89	86	84		88
6	97	90	85	82	95	89	85	82	88	84	81		87	83	81		85
7	93	87	82	79	92	86	82	79	85	81	78		84	80	78		83
8	91	84	79	76	90	83	79	76	82	78	76		81	78	75		80
9	88	81	76	73	87	80	76	73	80	76	73		79	75	73		78
10	85	78	74	71	85	78	74	71	77	73	71		76	73	71		76

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	672839
5°	626668
10°	447025
15°	263275
20°	163817
25°	89911
30°	41117
35°	15566
40°	7046
45°	4234
50°	1768
55°	1143
60°	787
65°	543
70°	96
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4234 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	491.0	30.2
10°-20°	665.1	41.0
20°-30°	352.0	21.7
30°-40°	86.9	5.4
40°-50°	21.2	1.3
50°-60°	5.6	0.3
60°-70°	1.9	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°	1508.1	92.9
0°-40°	1595.0	98.2
0°-60°	1621.7	99.9
0°-90°	1623.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1623.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6158	
5°	5714	491
15°	2328	665
25°	746	352
35°	117	87
45°	27	21
55°	6	6
65°	2	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	6158.1
2.5°	6056.9
5°	5713.7
7.5°	5024.1
10°	4029.2
12.5°	3045.8
15°	2327.5
17.5°	1814.0
20°	1408.9
22.5°	1056.6
25°	745.8
27.5°	500.1
30°	325.9
32.5°	198.3
35°	116.7
37.5°	71.4
40°	49.4
42.5°	37.8
45°	27.4
47.5°	16.6
50°	10.4
52.5°	7.5
55°	6.0
57.5°	4.6
60°	3.6
62.5°	2.9
65°	2.1
67.5°	0.8
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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— 0°-180°







(END OF REPORT)