

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: P781689

Luminaire Tested: LER4D50D010-EC4DR2540509027-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781689
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: LER4D50D010-EC4DR2540509027-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 25° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4418.2 lumens
Efficiency: N/A
Efficacy: 94.0 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): 47
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

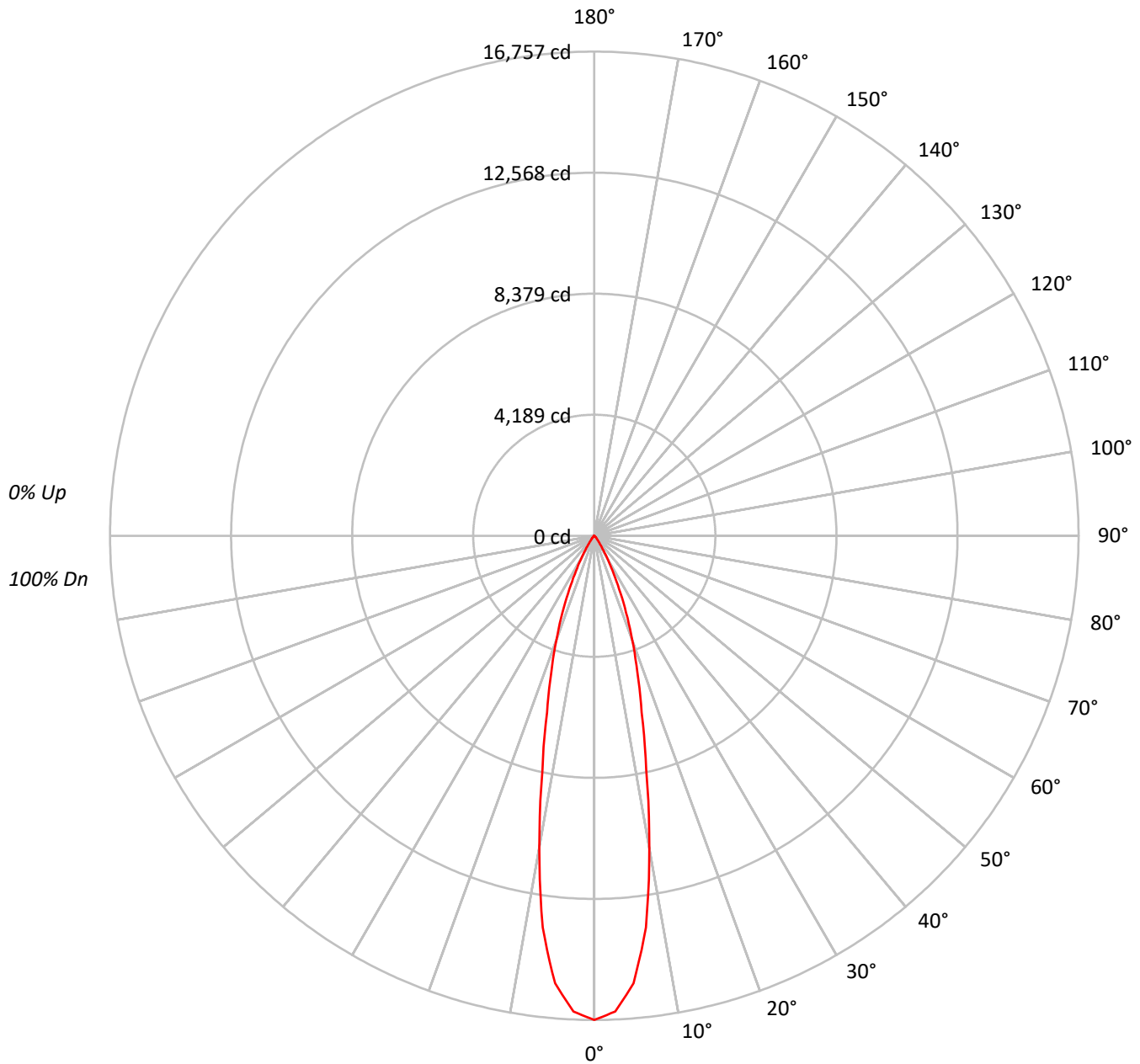


Downlight

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					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°	1830904
5°	1705264
10°	1216404
15°	716414
20°	445767
25°	244632
30°	111882
35°	42376
40°	19184
45°	11542
50°	4793
55°	3086
60°	2163
65°	1448
70°	224
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11542 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1336.2	30.2
10°-20°	1809.8	41.0
20°-30°	957.7	21.7
30°-40°	236.4	5.4
40°-50°	57.7	1.3
50°-60°	15.2	0.3
60°-70°	5.1	0.1
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°	4103.7	92.9
0°-40°	4340.2	98.2
0°-60°	4413.0	99.9
0°-90°	4418.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4418.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	16757	
5°	15548	###
15°	6334	1810
25°	2029	958
35°	318	236
45°	75	58
55°	16	15
65°	6	5
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	16757.2
2.5°	16481.8
5°	15547.9
7.5°	13671.5
10°	10963.9
12.5°	8288.1
15°	6333.5
17.5°	4936.1
20°	3833.8
22.5°	2875.2
25°	2029.2
27.5°	1360.8
30°	886.8
32.5°	539.5
35°	317.7
37.5°	194.4
40°	134.5
42.5°	102.8
45°	74.7
47.5°	45.1
50°	28.2
52.5°	20.4
55°	16.2
57.5°	12.7
60°	9.9
62.5°	7.7
65°	5.6
67.5°	2.1
70°	0.7
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)