

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: P781033

Luminaire Tested: LER4D35BD010-EC4DR3520359050-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781033
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-20)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D35BD010-EC4DR3520359050-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 35° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3422.9 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.6 / 0.54
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 30.8
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

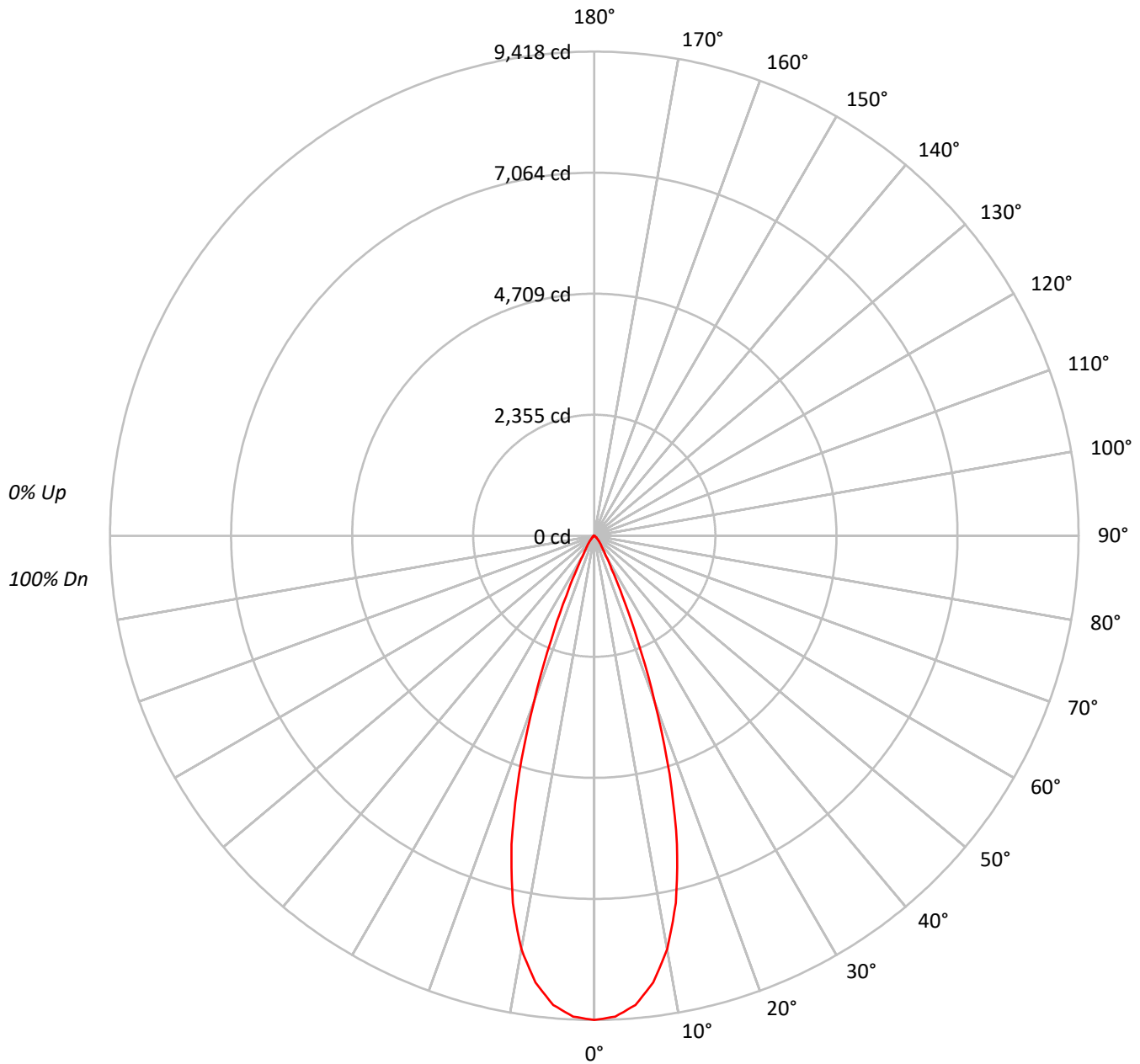


Downlight

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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	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	115	112	110	108	112	110	108	107		106	105	103		103	101	100		99	98	98
2	110	106	103	101	108	105	102	99		102	99	97		99	97	95		96	95	93
3	106	101	97	94	105	100	96	93		97	95	92		95	93	91		93	91	89
4	103	97	92	89	101	96	92	89		94	90	88		92	89	87		90	88	86
5	99	93	88	85	98	92	87	84		90	86	84		89	85	83		87	84	82
6	96	89	84	81	94	88	84	81		87	83	80		85	82	80		84	81	79
7	93	85	81	78	91	85	80	77		84	80	77		83	79	77		82	79	76
8	90	82	78	74	88	82	77	74		81	77	74		80	76	74		79	76	73
9	87	79	75	72	86	79	75	72		78	74	71		77	74	71		77	73	71
10	84	77	72	69	83	76	72	69		76	72	69		75	71	69		74	71	69

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1029029
5°	1004849
10°	905632
15°	702920
20°	398688
25°	155107
30°	57871
35°	31718
40°	20738
45°	12624
50°	8040
55°	5677
60°	4152
65°	2249
70°	160
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 12624 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	842.6	24.6
10°-20°	1645.1	48.1
20°-30°	671.0	19.6
30°-40°	160.6	4.7
40°-50°	66.9	2.0
50°-60°	27.7	0.8
60°-70°	8.7	0.3
70°-80°	0.2	0.0
80°-90°	0.1	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°	3158.7	92.3
0°-40°	3319.3	97.0
0°-60°	3413.9	99.7
0°-90°	3422.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3422.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9418	
5°	9162	843
15°	6214	1645
25°	1287	671
35°	238	161
45°	82	67
55°	30	28
65°	9	9
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	9418.1
2.5°	9361.6
5°	9161.8
7.5°	8763.3
10°	8162.8
12.5°	7317.4
15°	6214.2
17.5°	4864.9
20°	3428.9
22.5°	2186.4
25°	1286.6
27.5°	727.3
30°	458.7
32.5°	322.0
35°	237.8
37.5°	183.9
40°	145.4
42.5°	112.0
45°	81.7
47.5°	61.1
50°	47.3
52.5°	37.5
55°	29.8
57.5°	24.1
60°	19.0
62.5°	13.9
65°	8.7
67.5°	3.1
70°	0.5
72.5°	0.5
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.5
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)