

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: P781325

Luminaire Tested: LER4D40BD010-EC4DR5040509024-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781325
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-44)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D40BD010-EC4DR5040509024-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 50° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3520.0 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Spacing Criteria (0/90/45): 0.8 / 0.8 / 0.73
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 35.2
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

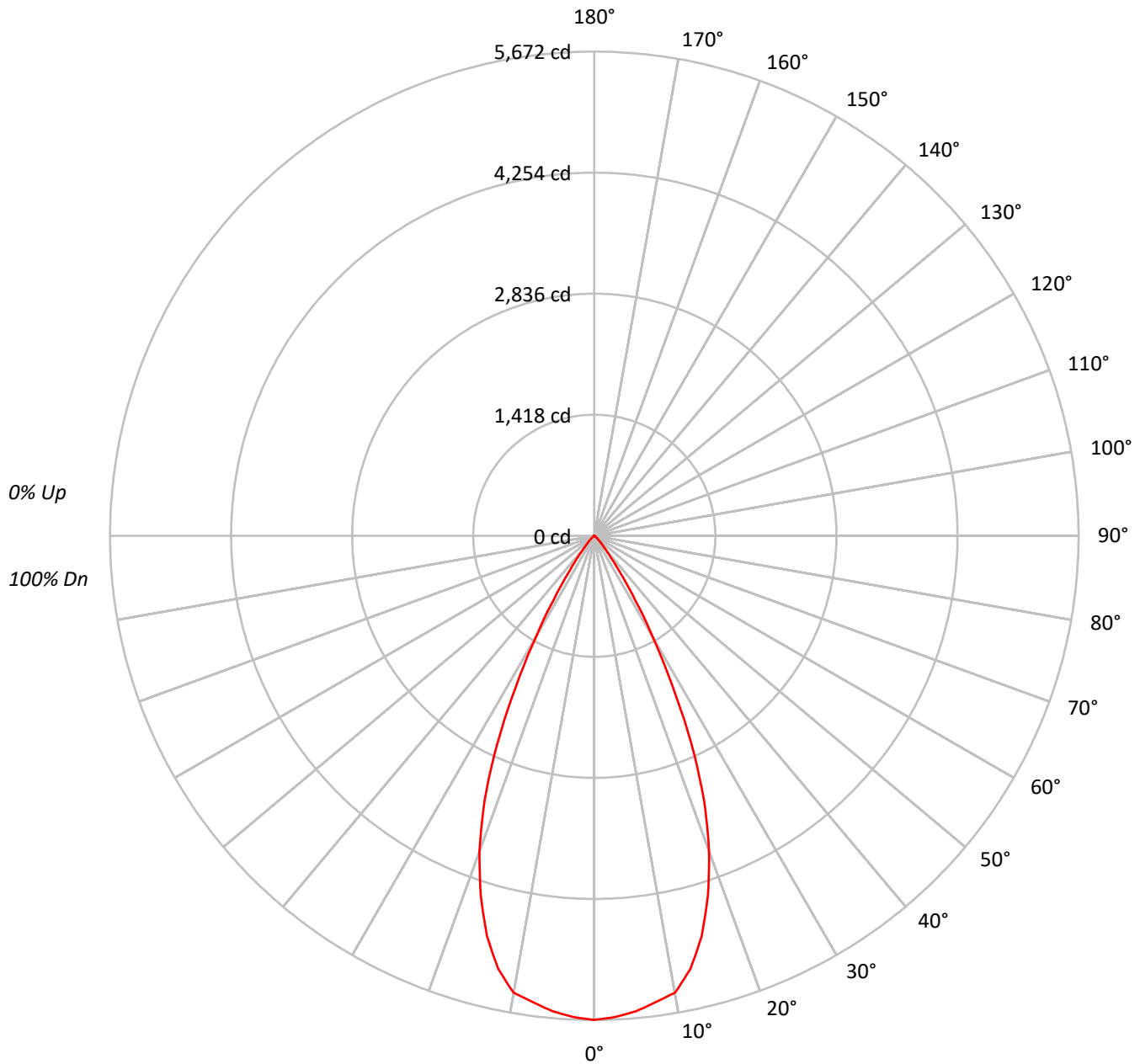


Downlight

TEST NUMBER: P781325

CATALOG NUMBER: LER4D40BD010-EC4DR5040509024-4LBS1H

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					0
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	114	112	109	107	112	110	108	106		106	104	102		102	101	99		98	97	97
2	109	105	101	98	107	103	100	97		100	98	95		97	95	93		95	93	91
3	105	99	95	91	103	98	94	90		95	92	89		93	90	88		91	88	86
4	100	94	89	85	99	93	88	85		90	87	84		89	85	83		87	84	82
5	96	89	84	80	95	88	83	79		86	82	79		85	81	78		83	80	77
6	92	84	79	75	91	83	79	75		82	78	74		81	77	74		79	76	74
7	88	80	75	71	87	79	74	71		78	74	71		77	73	70		76	73	70
8	85	76	71	67	84	76	71	67		75	70	67		74	70	67		73	69	66
9	81	73	68	64	80	72	67	64		71	67	64		71	67	64		70	66	63
10	78	70	64	61	77	69	64	61		68	64	61		68	64	61		67	63	60

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	619683
5°	613188
10°	603093
15°	549162
20°	456964
25°	324380
30°	171696
35°	69973
40°	25987
45°	11898
50°	4878
55°	2553
60°	1246
65°	362
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11898 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	528.4	15.0
10°-20°	1335.5	37.9
20°-30°	1199.6	34.1
30°-40°	375.6	10.7
40°-50°	65.8	1.9
50°-60°	13.1	0.4
60°-70°	2.0	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°	3063.6	87.0
0°-40°	3439.2	97.7
0°-60°	3518.0	99.9
0°-90°	3520.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3520.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5672	
5°	5591	528
15°	4855	1335
25°	2691	1200
35°	525	376
45°	77	66
55°	13	13
65°	1	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5671.6
2.5°	5643.4
5°	5590.8
7.5°	5510.4
10°	5435.9
12.5°	5196.8
15°	4854.9
17.5°	4420.7
20°	3930.1
22.5°	3362.5
25°	2690.7
27.5°	1978.2
30°	1360.9
32.5°	886.1
35°	524.6
37.5°	301.2
40°	182.2
42.5°	118.6
45°	77.0
47.5°	46.9
50°	28.7
52.5°	19.6
55°	13.4
57.5°	9.1
60°	5.7
62.5°	3.3
65°	1.4
67.5°	0.5
70°	0.0
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



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— 0°-180°







(END OF REPORT)