

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: P781087

Luminaire Tested: LER4D35BD010-EC4DR5020359024-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781087
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: LER4D35BD010-EC4DR5020359024-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 50° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2840.5 lumens
Efficiency: N/A
Efficacy: 92.2 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): 30.8
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

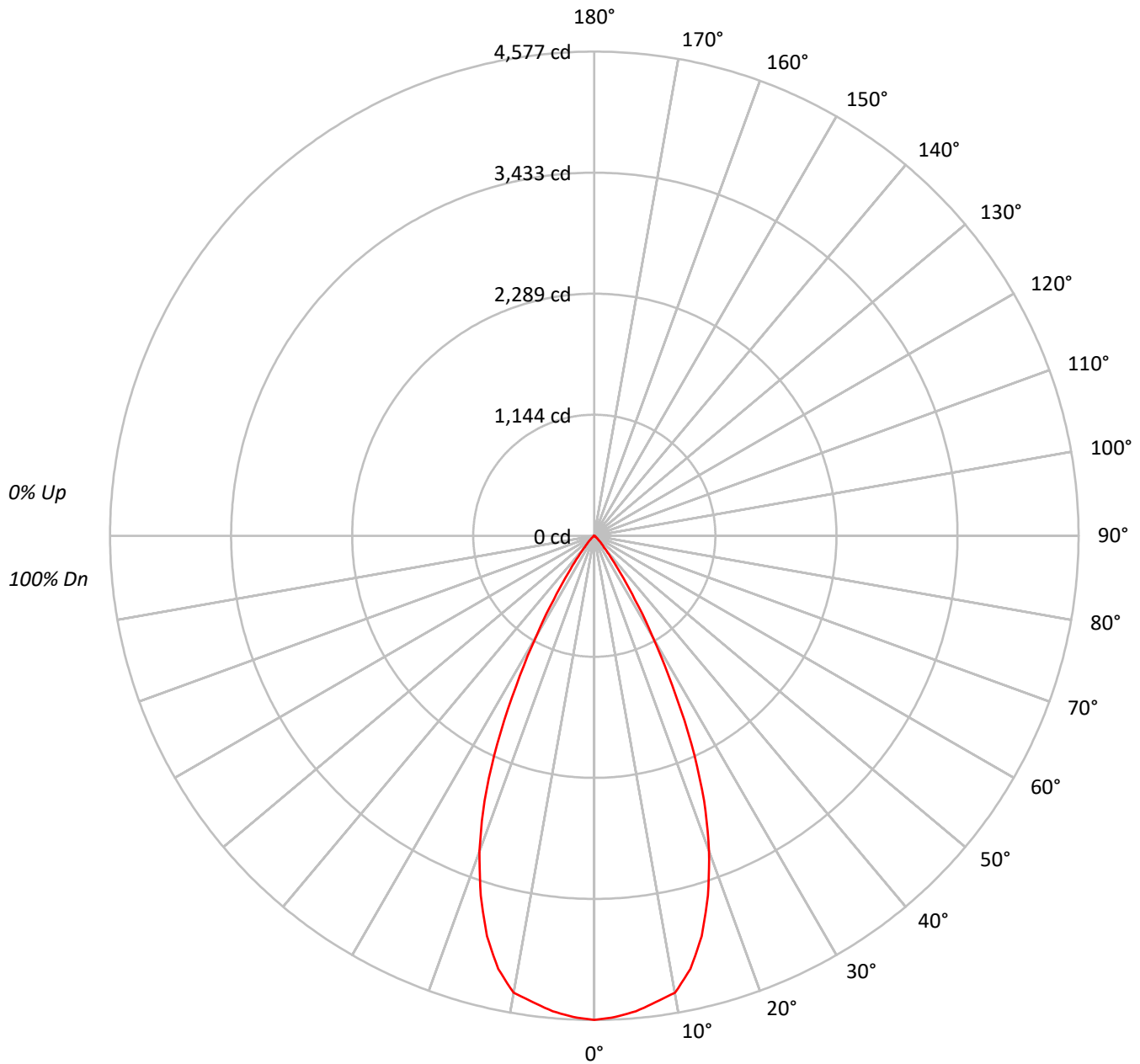


Downlight

TEST NUMBER: P781087

CATALOG NUMBER: LER4D35BD010-EC4DR5020359024-4LBS1MW

Luminous Intensity Polar Plot





TEST NUMBER: P781087

CATALOG NUMBER: LER4D35BD010-EC4DR5020359024-4LBS1MW

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	500065
5°	494813
10°	486666
15°	443151
20°	368748
25°	261763
30°	138553
35°	56461
40°	20967
45°	9596
50°	3944
55°	2057
60°	1005
65°	310
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9596 cd/sqm



TEST NUMBER: P781087

CATALOG NUMBER: LER4D35BD010-EC4DR5020359024-4LBS1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	426.4	15.0
10°-20°	1077.7	37.9
20°-30°	968.0	34.1
30°-40°	303.1	10.7
40°-50°	53.1	1.9
50°-60°	10.6	0.4
60°-70°	1.6	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°	2472.2	87.0
0°-40°	2775.2	97.7
0°-60°	2838.9	99.9
0°-90°	2840.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2840.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4577	
5°	4512	426
15°	3918	1078
25°	2171	968
35°	423	303
45°	62	53
55°	11	11
65°	1	2
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P781087

CATALOG NUMBER: LER4D35BD010-EC4DR5020359024-4LBS1MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	4576.8
2.5°	4554.0
5°	4511.5
7.5°	4446.7
10°	4386.5
12.5°	4193.6
15°	3917.7
17.5°	3567.3
20°	3171.4
22.5°	2713.4
25°	2171.3
27.5°	1596.3
30°	1098.2
32.5°	715.0
35°	423.3
37.5°	243.1
40°	147.0
42.5°	95.7
45°	62.1
47.5°	37.8
50°	23.2
52.5°	15.8
55°	10.8
57.5°	7.3
60°	4.6
62.5°	2.7
65°	1.2
67.5°	0.4
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



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180°







(END OF REPORT)