

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: P781090

Luminaire Tested: LER4D35BD010-EC4DR5020359027-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781090
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-EC4DR5020359027-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 50° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3556.5 lumens
Efficiency: N/A
Efficacy: 115.5 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 (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

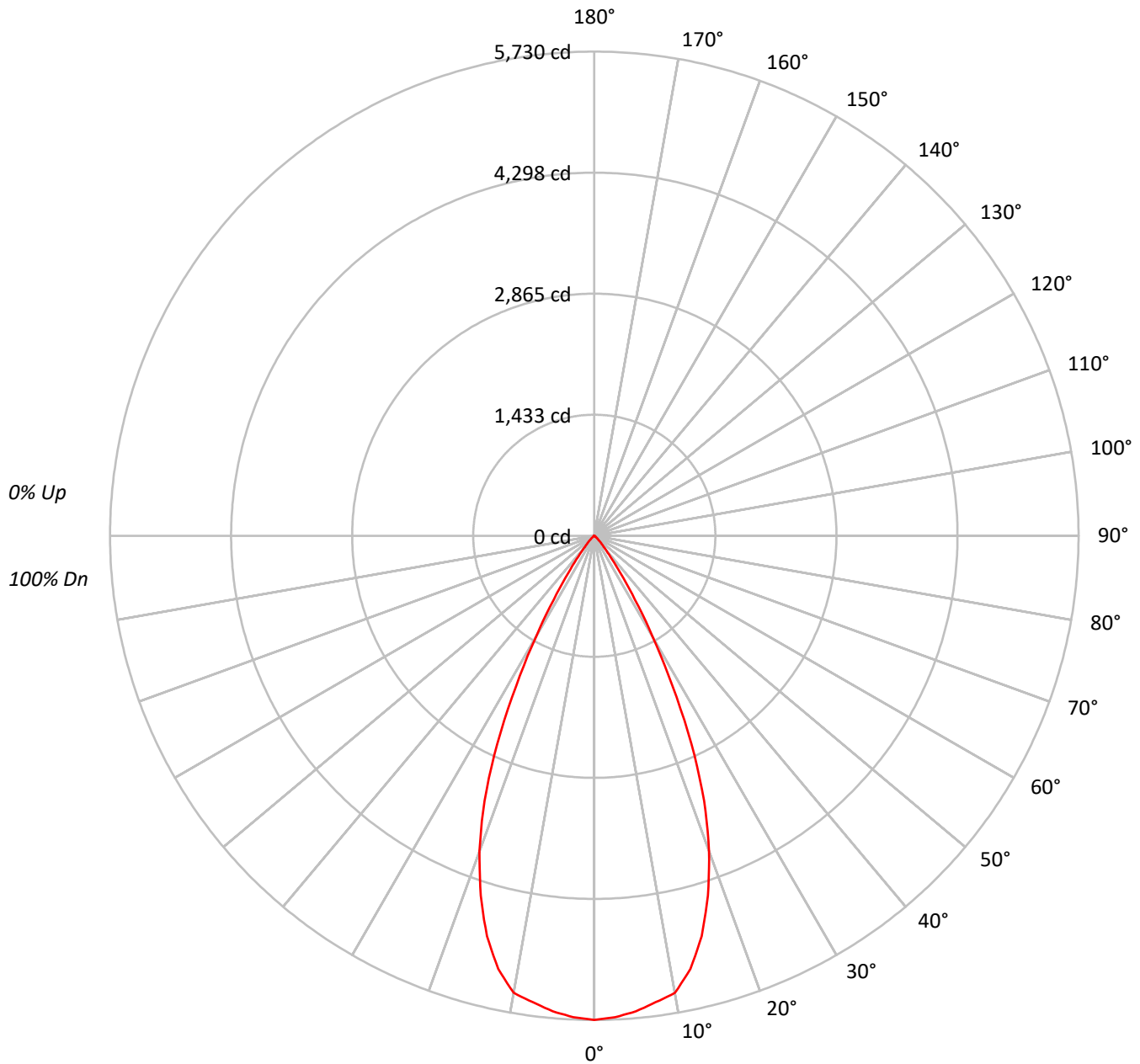


Downlight

TEST NUMBER: P781090

CATALOG NUMBER: LER4D35BD010-EC4DR5020359027-4LBS1LI

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°	626108
5°	619550
10°	609339
15°	554852
20°	461708
25°	327743
30°	173475
35°	70693
40°	26258
45°	12022
50°	4929
55°	2572
60°	1267
65°	362
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 12022 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	533.9	15.0
10°-20°	1349.3	37.9
20°-30°	1212.1	34.1
30°-40°	379.5	10.7
40°-50°	66.4	1.9
50°-60°	13.2	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°	3095.3	87.0
0°-40°	3474.8	97.7
0°-60°	3554.5	99.9
0°-90°	3556.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3556.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5730	
5°	5649	534
15°	4905	1349
25°	2719	1212
35°	530	379
45°	78	66
55°	14	13
65°	1	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5730.4
2.5°	5701.9
5°	5648.8
7.5°	5567.6
10°	5492.2
12.5°	5250.7
15°	4905.2
17.5°	4466.6
20°	3970.9
22.5°	3397.4
25°	2718.6
27.5°	1998.7
30°	1375.0
32.5°	895.2
35°	530.0
37.5°	304.4
40°	184.1
42.5°	119.8
45°	77.8
47.5°	47.3
50°	29.0
52.5°	19.8
55°	13.5
57.5°	9.2
60°	5.8
62.5°	3.4
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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Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





— 0°-180°







(END OF REPORT)