

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: P784544

Luminaire Tested: LER4DD35BD010-EC4DR6020359027-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P784544
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-57)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4DD35BD010-EC4DR6020359027-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2449.6 lumens
Efficiency: N/A
Efficacy: 79.5 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.83
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

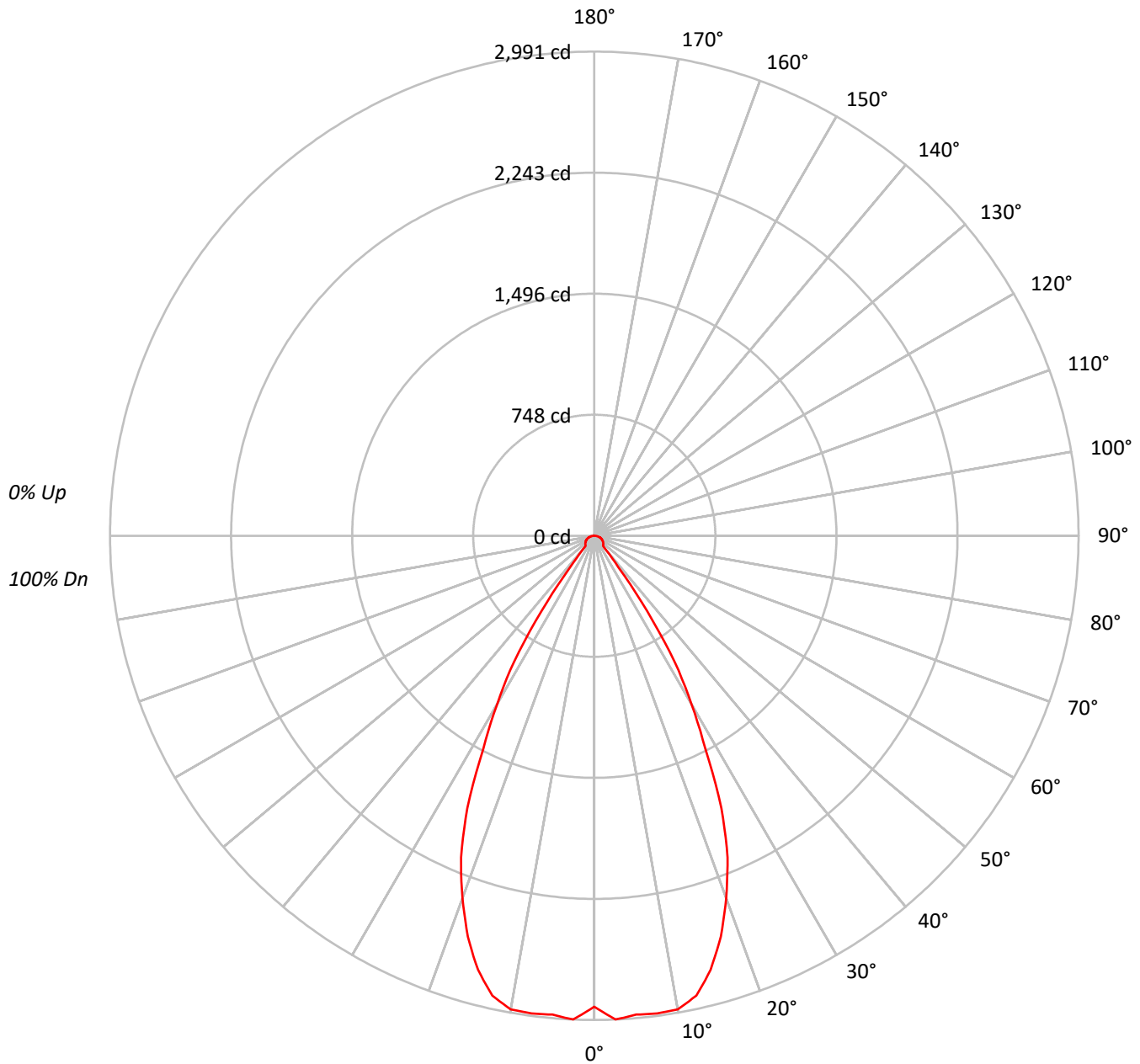


Downlight

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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	113	110	108	105	111	108	106	104	104	102	100		100	99	97		97
2	107	102	98	95	105	101	97	94	97	94	92		94	92	90		92
3	102	96	90	86	100	94	89	86	91	88	84		89	86	83		87
4	97	89	84	80	95	88	83	79	86	82	78		84	80	77		82
5	92	84	78	74	91	83	78	74	81	77	73		80	76	72		78
6	88	79	73	69	87	78	73	69	77	72	68		75	71	68		74
7	84	75	69	65	83	74	68	64	73	68	64		72	67	64		71
8	80	71	65	61	79	70	65	61	69	64	60		68	64	60		67
9	77	67	61	57	75	67	61	57	66	61	57		65	60	57		64
10	73	64	58	54	72	63	58	54	62	58	54		62	57	54		61

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	317861
5°	325678
10°	329610
15°	313996
20°	276857
25°	223921
30°	151472
35°	75895
40°	12309
45°	12052
50°	12290
55°	12477
60°	12827
65°	13108
70°	13417
75°	13593
80°	13088
85°	10907

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 75°

Luminance: 13593 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.8	11.6
10°-20°	767.8	31.3
20°-30°	826.1	33.7
30°-40°	359.1	14.7
40°-50°	60.3	2.5
50°-60°	58.6	2.4
60°-70°	50.2	2.0
70°-80°	33.6	1.4
80°-90°	10.0	0.4
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°	1877.8	76.7
0°-40°	2236.9	91.3
0°-60°	2355.8	96.2
0°-90°	2449.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2449.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2909	
5°	2969	284
15°	2776	768
25°	1857	826
35°	569	359
45°	78	60
55°	66	59
65°	51	50
75°	32	34
85°	9	10
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2909.2
2.5°	2991.0
5°	2969.4
7.5°	2976.2
10°	2970.9
12.5°	2909.6
15°	2775.9
17.5°	2596.5
20°	2381.1
22.5°	2150.5
25°	1857.4
27.5°	1485.6
30°	1200.6
32.5°	925.3
35°	569.0
37.5°	243.4
40°	86.3
42.5°	79.5
45°	78.0
47.5°	75.3
50°	72.3
52.5°	68.9
55°	65.5
57.5°	62.1
60°	58.7
62.5°	54.9
65°	50.7
67.5°	46.6
70°	42.0
72.5°	37.1
75°	32.2
77.5°	26.5
80°	20.8
82.5°	14.8
85°	8.7
87.5°	3.0
90°	0.0



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— 0°-180°







(END OF REPORT)