

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: P784600

Luminaire Tested: LER4DD35BD010-EC4DR7020359035-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P784600
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-73)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4DD35BD010-EC4DR7020359035-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1896.5 lumens
Efficiency: N/A
Efficacy: 61.6 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.82
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

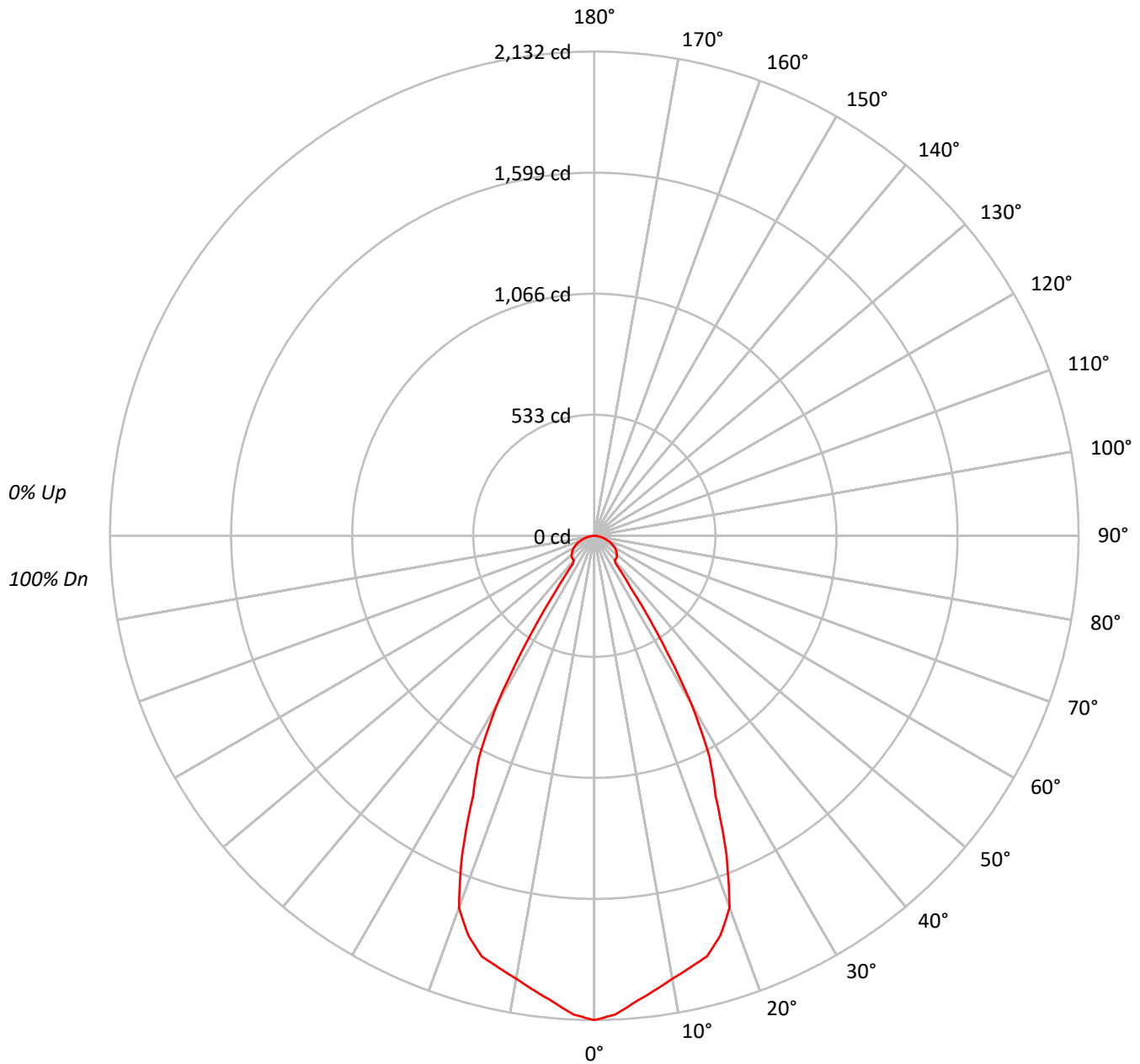


Downlight

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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	112	109	106	103	110	107	104	102	103	101	99		99	97	96		95
2	106	100	95	91	103	98	94	90	95	91	88		92	89	86		89
3	100	92	87	82	98	91	86	81	88	84	80		86	82	79		83
4	94	86	80	75	92	85	79	74	82	77	73		80	76	73		78
5	89	80	74	69	87	79	73	69	77	72	68		75	71	67		74
6	85	75	68	64	83	74	68	64	73	67	63		71	66	63		70
7	80	70	64	59	79	70	64	59	68	63	59		67	62	59		66
8	77	66	60	56	75	66	60	56	65	59	55		64	59	55		63
9	73	63	57	52	72	62	56	52	61	56	52		60	55	52		60
10	70	59	53	49	69	59	53	49	58	53	49		57	52	49		57

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	232977
5°	226058
10°	219751
15°	216864
20°	202512
25°	152142
30°	107542
35°	38094
40°	20025
45°	21339
50°	22097
55°	22516
60°	22639
65°	22182
70°	20924
75°	19377
80°	17177
85°	13915

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 22653 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.4	10.3
10°-20°	533.2	28.1
20°-30°	587.3	31.0
30°-40°	224.4	11.8
40°-50°	105.9	5.6
50°-60°	105.3	5.6
60°-70°	84.3	4.4
70°-80°	48.5	2.6
80°-90°	13.2	0.7
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°	1314.9	69.3
0°-40°	1539.3	81.2
0°-60°	1750.6	92.3
0°-90°	1896.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1896.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2132	
5°	2061	194
15°	1917	533
25°	1262	587
35°	286	224
45°	138	106
55°	118	105
65°	86	84
75°	46	48
85°	11	13
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2132.3
2.5°	2110.0
5°	2061.1
7.5°	2020.2
10°	1980.7
12.5°	1947.3
15°	1917.2
17.5°	1844.6
20°	1741.7
22.5°	1519.5
25°	1262.0
27.5°	1098.6
30°	852.4
32.5°	550.6
35°	285.6
37.5°	154.3
40°	140.4
42.5°	139.4
45°	138.1
47.5°	135.0
50°	130.0
52.5°	124.2
55°	118.2
57.5°	111.4
60°	103.6
62.5°	94.9
65°	85.8
67.5°	75.6
70°	65.5
72.5°	55.4
75°	45.9
77.5°	36.1
80°	27.3
82.5°	19.2
85°	11.1
87.5°	4.4
90°	0.0



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— 0°-180°







(END OF REPORT)