

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: P784592

Luminaire Tested: LER4DD35BD010-EC4DR7020359027-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P784592
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-EC4DR7020359027-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1821.7 lumens
Efficiency: N/A
Efficacy: 59.1 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

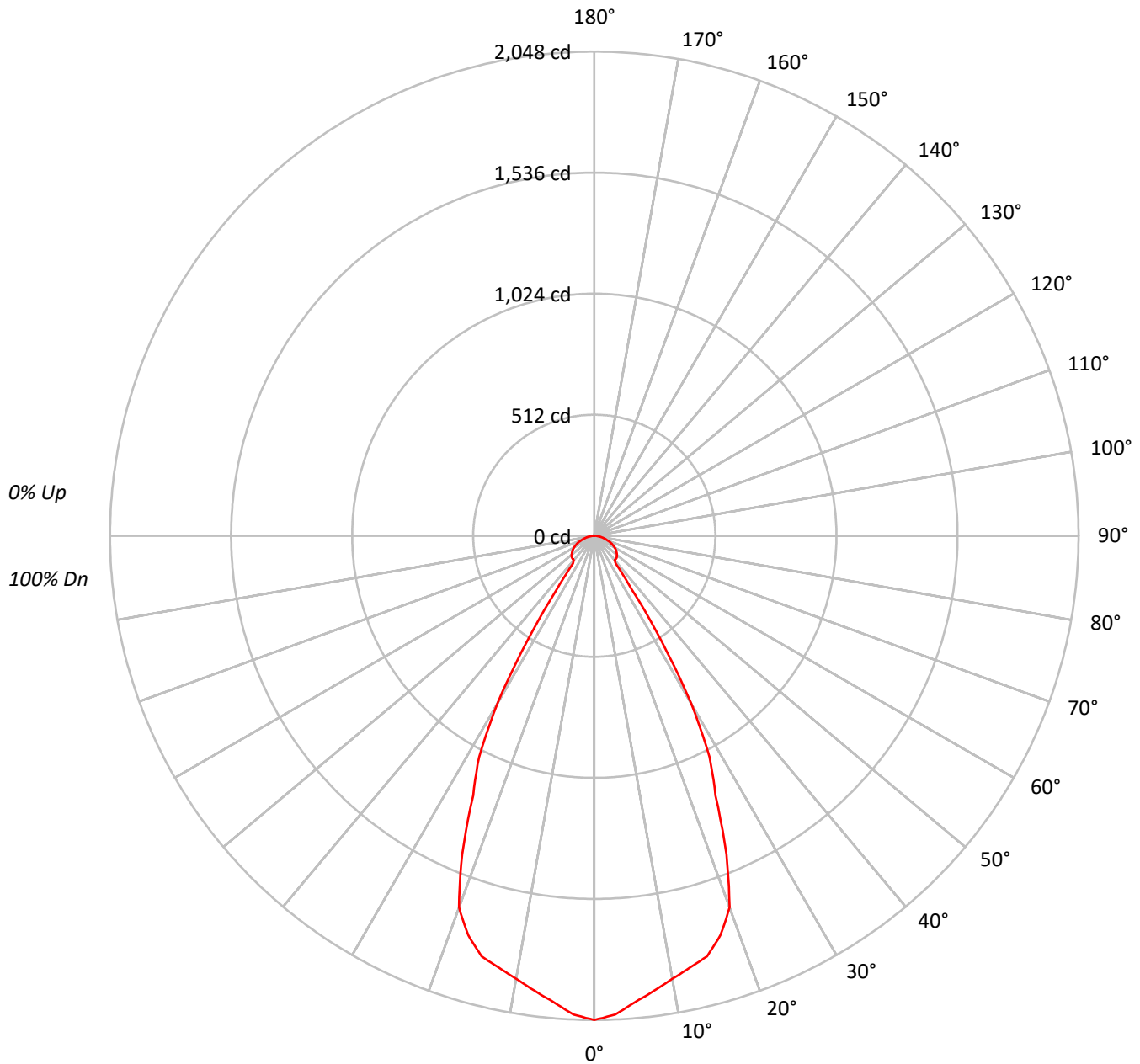


Downlight

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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					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	112	109	106	103	110	107	104	102		103	101	99		99	97	96		95	94	93
2	106	100	95	91	103	98	94	90		95	91	88		92	89	86		89	87	85
3	100	92	87	82	98	91	86	81		88	84	80		86	82	79		83	80	78
4	94	86	80	75	92	85	79	74		82	77	73		80	76	73		78	75	72
5	89	80	74	69	87	79	73	69		77	72	68		75	71	67		74	70	67
6	85	75	68	64	83	74	68	64		73	67	63		71	66	63		70	66	62
7	80	70	64	59	79	70	64	59		68	63	59		67	62	59		66	62	58
8	77	66	60	56	75	66	60	56		65	59	55		64	59	55		63	58	55
9	73	63	57	52	72	62	56	52		61	56	52		60	55	52		60	55	52
10	70	59	53	49	69	59	53	49		58	53	49		57	52	49		57	52	49

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	223788
5°	217130
10°	211086
15°	208313
20°	194525
25°	146138
30°	103303
35°	36587
40°	19241
45°	20489
50°	21213
55°	21621
60°	21765
65°	21303
70°	20094
75°	18617
80°	16548
85°	13414

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 60°

Luminance: 21765 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.7	10.3
10°-20°	512.2	28.1
20°-30°	564.1	31.0
30°-40°	215.5	11.8
40°-50°	101.8	5.6
50°-60°	101.2	5.6
60°-70°	81.0	4.4
70°-80°	46.6	2.6
80°-90°	12.7	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°	1263.1	69.3
0°-40°	1478.6	81.2
0°-60°	1681.5	92.3
0°-90°	1821.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1821.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2048	
5°	1980	187
15°	1842	512
25°	1212	564
35°	274	216
45°	133	102
55°	114	101
65°	82	81
75°	44	47
85°	11	13
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2048.2
2.5°	2026.8
5°	1979.7
7.5°	1940.5
10°	1902.6
12.5°	1870.5
15°	1841.6
17.5°	1771.9
20°	1673.0
22.5°	1459.6
25°	1212.2
27.5°	1055.2
30°	818.8
32.5°	528.9
35°	274.3
37.5°	148.2
40°	134.9
42.5°	133.9
45°	132.6
47.5°	129.7
50°	124.8
52.5°	119.3
55°	113.5
57.5°	107.0
60°	99.6
62.5°	91.1
65°	82.4
67.5°	72.6
70°	62.9
72.5°	53.2
75°	44.1
77.5°	34.7
80°	26.3
82.5°	18.5
85°	10.7
87.5°	4.2
90°	0.0



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— 0°-180°







(END OF REPORT)