

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: P784828

Luminaire Tested: LER4DD40BD010-EC4DR7040509024-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P784828
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: LER4DD40BD010-EC4DR7040509024-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1893.2 lumens
Efficiency: N/A
Efficacy: 53.8 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): 35.2
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

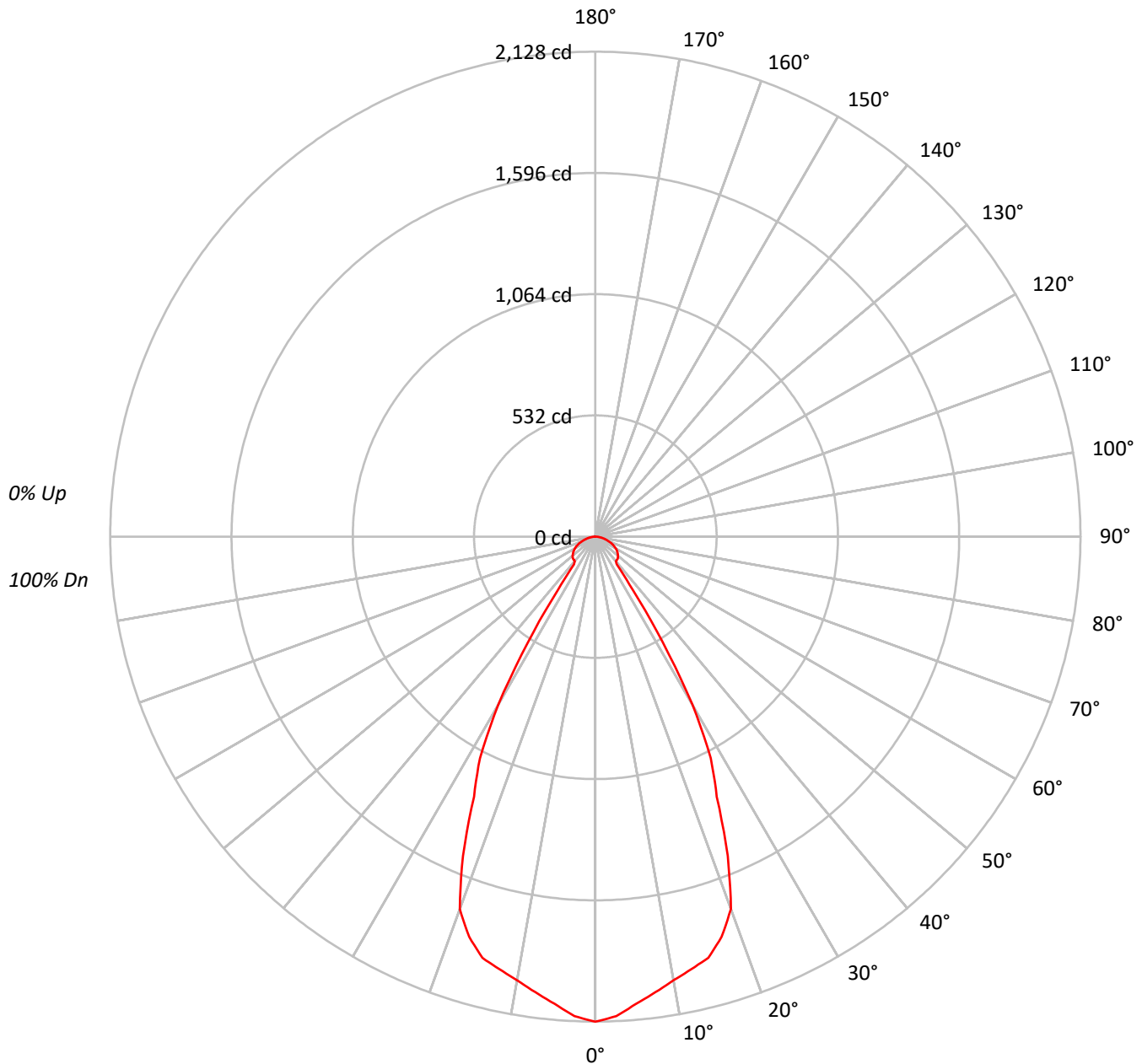


Downlight

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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				0			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91						
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83						
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76						
4	94	86	80	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70						
5	89	80	74	69	87	79	73	69	77	72	68	75	71	67	74	70	67	65						
6	85	75	68	64	83	74	68	64	73	67	63	71	66	63	70	66	62	61						
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57						
8	77	66	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53						
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50						
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48						

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	232562
5°	225652
10°	219363
15°	216480
20°	202152
25°	151864
30°	107352
35°	38027
40°	19997
45°	21293
50°	22046
55°	22478
60°	22617
65°	22130
70°	20892
75°	19335
80°	17177
85°	13915

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 60°

Luminance: 22617 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.1	10.3
10°-20°	532.3	28.1
20°-30°	586.2	31.0
30°-40°	224.0	11.8
40°-50°	105.8	5.6
50°-60°	105.1	5.6
60°-70°	84.2	4.4
70°-80°	48.4	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°	1312.6	69.3
0°-40°	1536.6	81.2
0°-60°	1747.5	92.3
0°-90°	1893.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1893.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2128	
5°	2057	194
15°	1914	532
25°	1260	586
35°	285	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°	2128.5
2.5°	2106.3
5°	2057.4
7.5°	2016.6
10°	1977.2
12.5°	1943.8
15°	1913.8
17.5°	1841.4
20°	1738.6
22.5°	1516.8
25°	1259.7
27.5°	1096.6
30°	850.9
32.5°	549.6
35°	285.1
37.5°	154.0
40°	140.2
42.5°	139.2
45°	137.8
47.5°	134.8
50°	129.7
52.5°	124.0
55°	118.0
57.5°	111.2
60°	103.5
62.5°	94.7
65°	85.6
67.5°	75.5
70°	65.4
72.5°	55.3
75°	45.8
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)