

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: P784604

Luminaire Tested: LER4DD35BD010-EC4DR7020359040-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P784604
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-EC4DR7020359040-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1985.3 lumens
Efficiency: N/A
Efficacy: 64.5 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

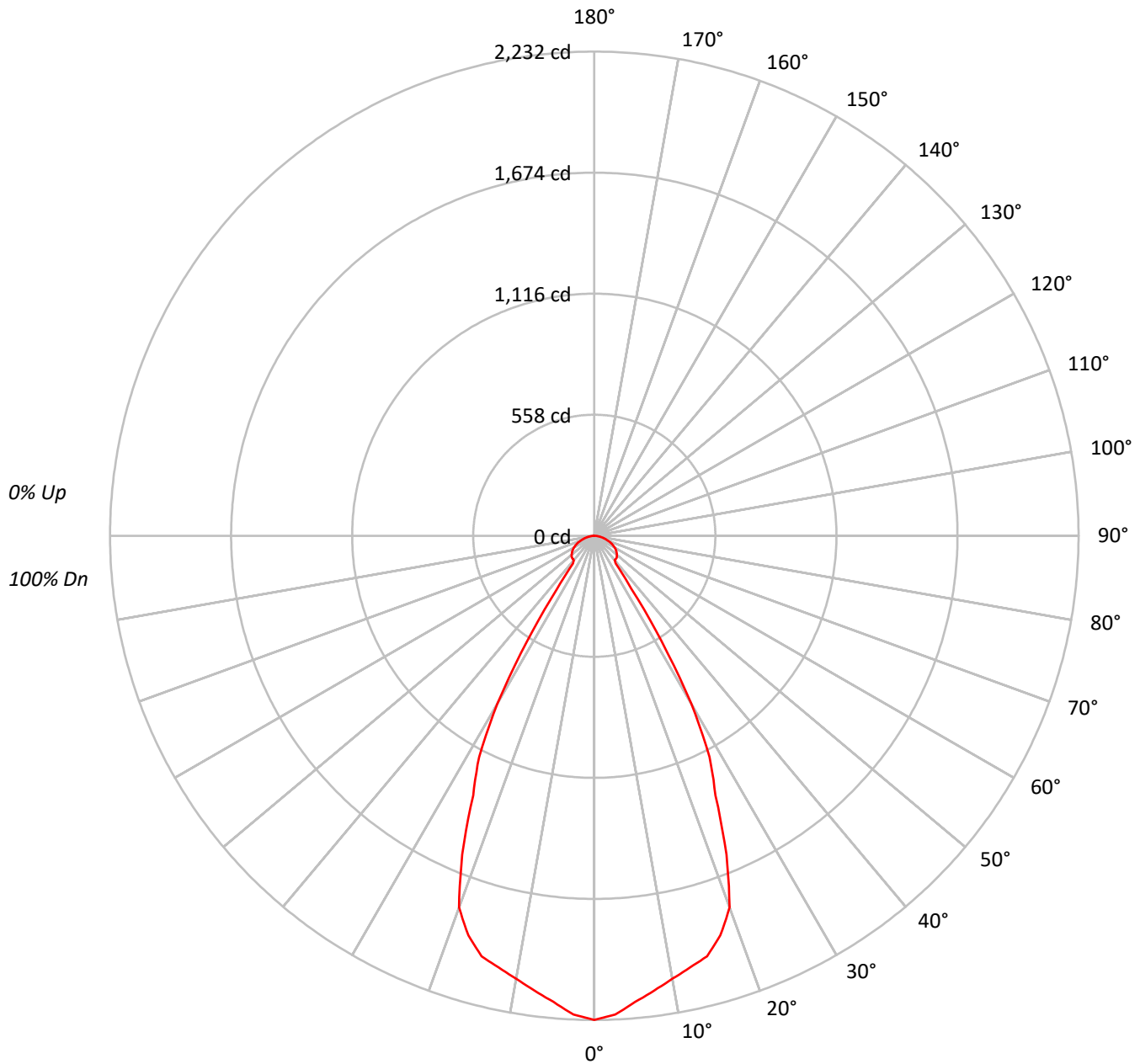


Downlight

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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				0
RW	70	50	30	10	70	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°	243870
5°	236620
10°	230025
15°	227011
20°	211977
25°	159242
30°	112576
35°	39881
40°	20967
45°	22328
50°	23134
55°	23564
60°	23710
65°	23216
70°	21915
75°	20305
80°	17995
85°	14667

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 23711 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.5	10.2
10°-20°	558.2	28.1
20°-30°	614.7	31.0
30°-40°	234.9	11.8
40°-50°	110.9	5.6
50°-60°	110.3	5.6
60°-70°	88.3	4.4
70°-80°	50.8	2.6
80°-90°	13.8	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°	1376.4	69.3
0°-40°	1611.3	81.2
0°-60°	1832.4	92.3
0°-90°	1985.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1985.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2232	
5°	2157	203
15°	2007	558
25°	1321	615
35°	299	235
45°	144	111
55°	124	110
65°	90	88
75°	48	51
85°	12	14
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2232.0
2.5°	2208.6
5°	2157.4
7.5°	2114.6
10°	2073.3
12.5°	2038.3
15°	2006.9
17.5°	1930.9
20°	1823.1
22.5°	1590.6
25°	1320.9
27.5°	1149.9
30°	892.3
32.5°	576.4
35°	299.0
37.5°	161.5
40°	147.0
42.5°	145.9
45°	144.5
47.5°	141.4
50°	136.1
52.5°	130.0
55°	123.7
57.5°	116.6
60°	108.5
62.5°	99.3
65°	89.8
67.5°	79.2
70°	68.6
72.5°	58.0
75°	48.1
77.5°	37.8
80°	28.6
82.5°	20.1
85°	11.7
87.5°	4.6
90°	0.0



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— 0°-180°







(END OF REPORT)