

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: P784590

Luminaire Tested: LER4DD35BD010-EC4DR7020359024-4LBDP1LI

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P784590
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-EC4DR7020359024-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2902.2 lumens
Efficiency: N/A
Efficacy: 94.2 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

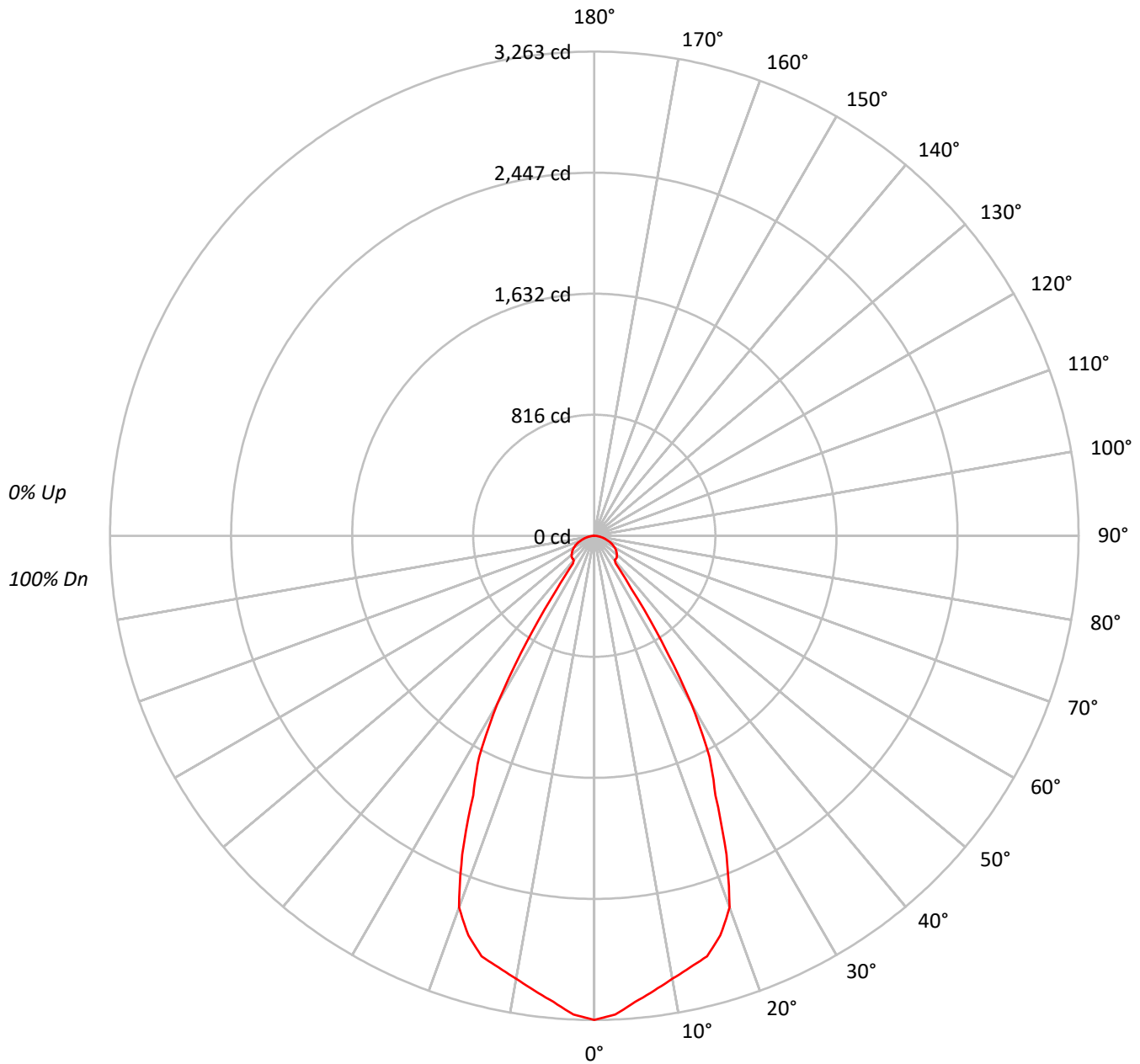


Downlight

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	356518
5°	345925
10°	336278
15°	331868
20°	309902
25°	232806
30°	164580
35°	58302
40°	30651
45°	32650
50°	33809
55°	34441
60°	34658
65°	33920
70°	32010
75°	29677
80°	26301
85°	21312

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 34671 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.5	10.3
10°-20°	816.0	28.1
20°-30°	898.7	31.0
30°-40°	343.4	11.8
40°-50°	162.1	5.6
50°-60°	161.2	5.6
60°-70°	129.0	4.4
70°-80°	74.2	2.6
80°-90°	20.1	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°	2012.2	69.3
0°-40°	2355.6	81.2
0°-60°	2678.9	92.3
0°-90°	2902.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2902.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3263	
5°	3154	297
15°	2934	816
25°	1931	899
35°	437	343
45°	211	162
55°	181	161
65°	131	129
75°	70	74
85°	17	20
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3263.0
2.5°	3228.9
5°	3154.0
7.5°	3091.5
10°	3031.0
12.5°	2979.9
15°	2933.9
17.5°	2822.8
20°	2665.3
22.5°	2325.3
25°	1931.1
27.5°	1681.1
30°	1304.5
32.5°	842.6
35°	437.1
37.5°	236.1
40°	214.9
42.5°	213.4
45°	211.3
47.5°	206.7
50°	198.9
52.5°	190.1
55°	180.8
57.5°	170.5
60°	158.6
62.5°	145.2
65°	131.2
67.5°	115.7
70°	100.2
72.5°	84.7
75°	70.3
77.5°	55.3
80°	41.8
82.5°	29.4
85°	17.0
87.5°	6.7
90°	0.0



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— 0°-180°







(END OF REPORT)