

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: P784603

Luminaire Tested: LER4DD35BD010-EC4DR7020359035-4LBDP1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P784603
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-EC4DR7020359035-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2546.1 lumens
Efficiency: N/A
Efficacy: 82.7 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

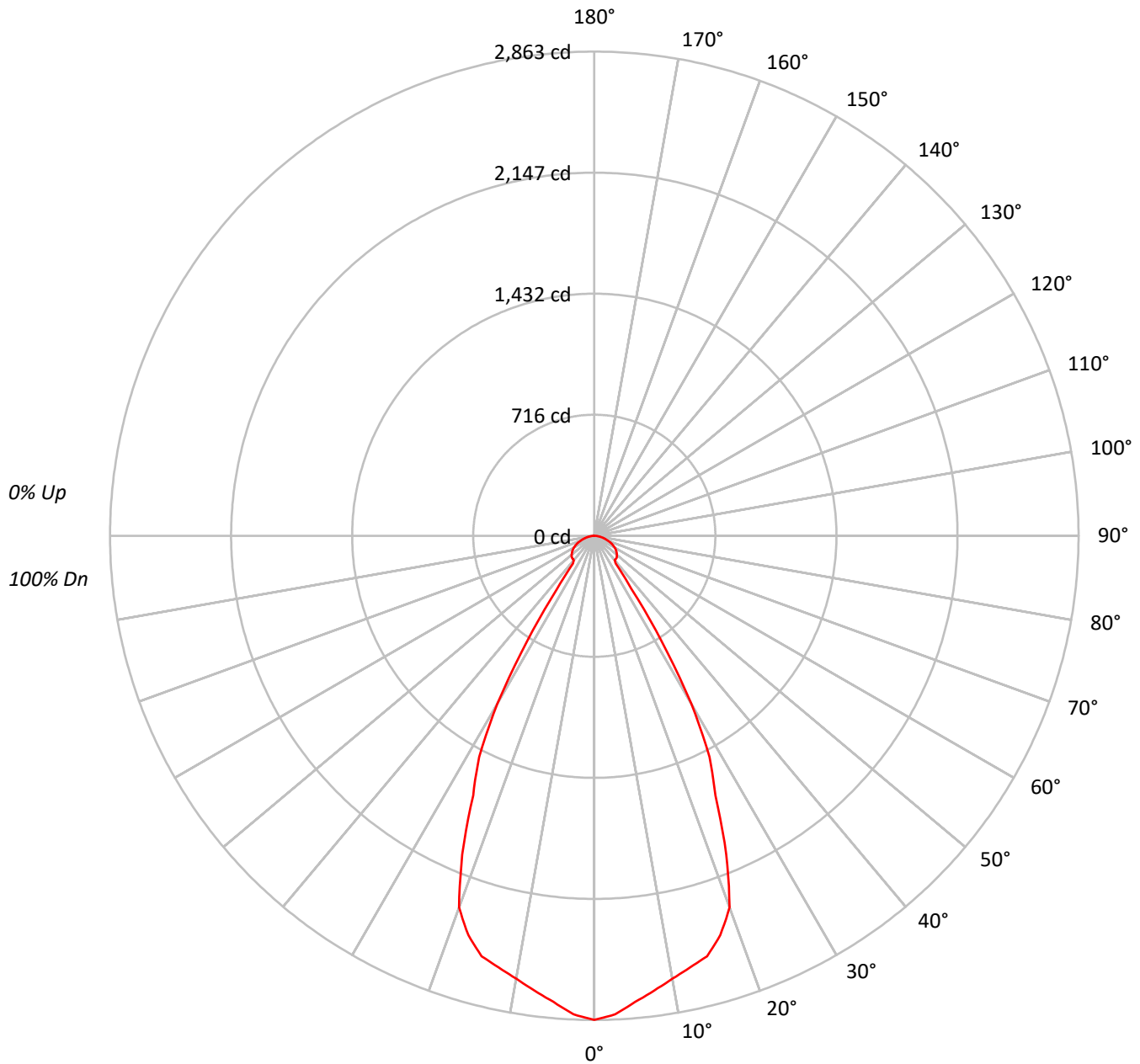


Downlight

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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	50	30	10
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°	312770
5°	303479
10°	295017
15°	291147
20°	271869
25°	204246
30°	144381
35°	51139
40°	26886
45°	28648
50°	29661
55°	30212
60°	30396
65°	29757
70°	28080
75°	26005
80°	23092
85°	18804

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 30421 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.0	10.3
10°-20°	715.9	28.1
20°-30°	788.4	31.0
30°-40°	301.2	11.8
40°-50°	142.2	5.6
50°-60°	141.4	5.6
60°-70°	113.2	4.4
70°-80°	65.0	2.6
80°-90°	17.7	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°	1765.3	69.3
0°-40°	2066.5	81.2
0°-60°	2350.2	92.3
0°-90°	2546.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2546.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2863	
5°	2767	261
15°	2574	716
25°	1694	788
35°	383	301
45°	185	142
55°	159	141
65°	115	113
75°	62	65
85°	15	18
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2862.6
2.5°	2832.7
5°	2767.0
7.5°	2712.1
10°	2659.1
12.5°	2614.2
15°	2573.9
17.5°	2476.4
20°	2338.2
22.5°	2040.0
25°	1694.2
27.5°	1474.8
30°	1144.4
32.5°	739.2
35°	383.4
37.5°	207.1
40°	188.5
42.5°	187.2
45°	185.4
47.5°	181.3
50°	174.5
52.5°	166.8
55°	158.6
57.5°	149.6
60°	139.1
62.5°	127.4
65°	115.1
67.5°	101.5
70°	87.9
72.5°	74.3
75°	61.6
77.5°	48.5
80°	36.7
82.5°	25.8
85°	15.0
87.5°	5.9
90°	0.0



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— 0°-180°







(END OF REPORT)