

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: P784599

Luminaire Tested: LER4DD35BD010-EC4DR7020359030-4LBDP1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P784599
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-EC4DR7020359030-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2519.6 lumens
Efficiency: N/A
Efficacy: 81.8 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): 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

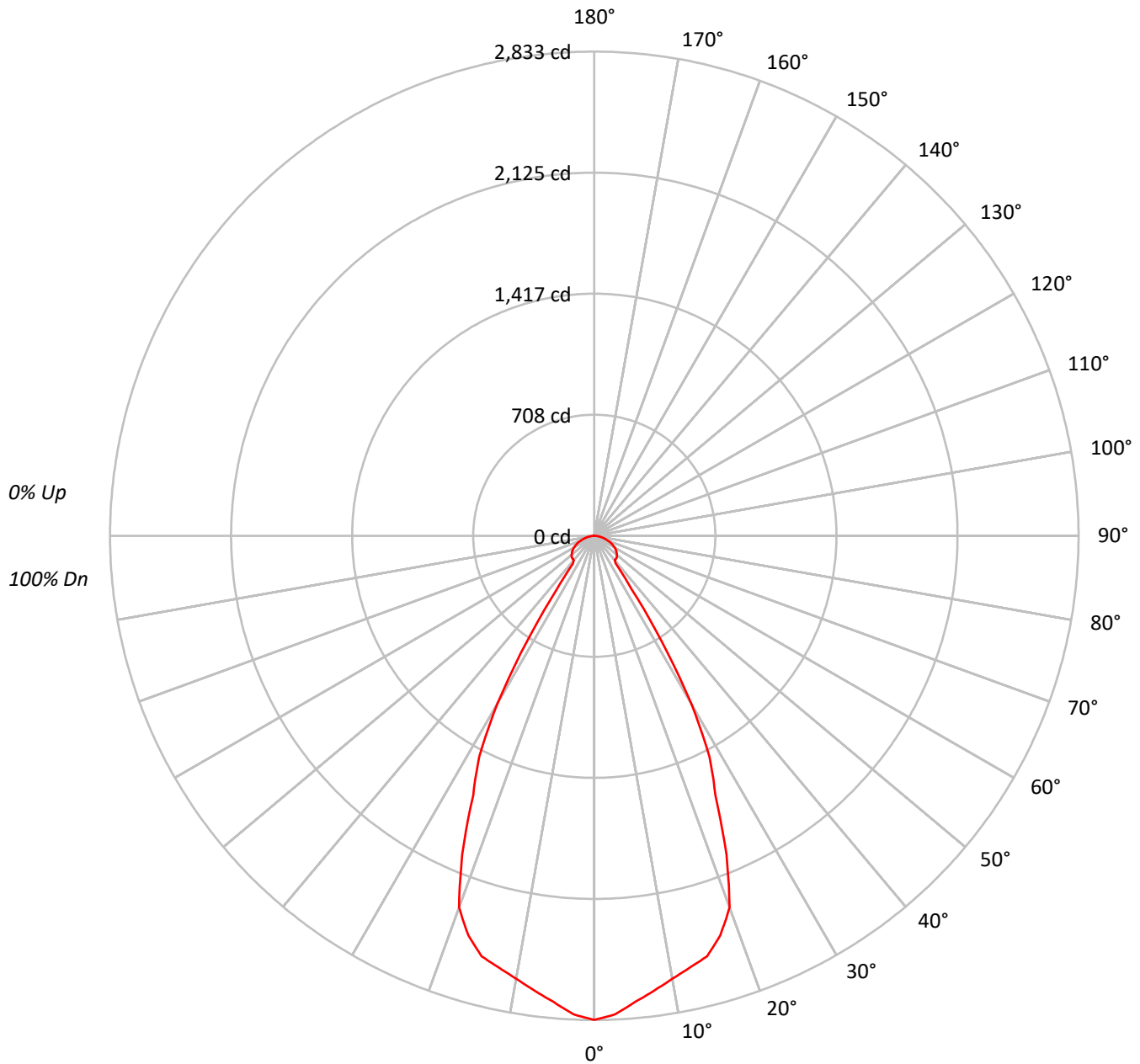


Downlight

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	309503
5°	300310
10°	291944
15°	288104
20°	269032
25°	202112
30°	142880
35°	50605
40°	26615
45°	28339
50°	29355
55°	29907
60°	30090
65°	29447
70°	27793
75°	25751
80°	22840
85°	18554

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 30096 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.3	10.3
10°-20°	708.4	28.1
20°-30°	780.2	31.0
30°-40°	298.1	11.8
40°-50°	140.7	5.6
50°-60°	139.9	5.6
60°-70°	112.0	4.4
70°-80°	64.4	2.6
80°-90°	17.5	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°	1746.9	69.3
0°-40°	2045.0	81.2
0°-60°	2325.6	92.3
0°-90°	2519.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2519.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2833	
5°	2738	258
15°	2547	708
25°	1676	780
35°	379	298
45°	183	141
55°	157	140
65°	114	112
75°	61	64
85°	15	18
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2832.7
2.5°	2803.1
5°	2738.1
7.5°	2683.8
10°	2631.4
12.5°	2587.0
15°	2547.0
17.5°	2450.6
20°	2313.8
22.5°	2018.7
25°	1676.5
27.5°	1459.4
30°	1132.5
32.5°	731.5
35°	379.4
37.5°	205.0
40°	186.6
42.5°	185.2
45°	183.4
47.5°	179.4
50°	172.7
52.5°	165.0
55°	157.0
57.5°	148.0
60°	137.7
62.5°	126.0
65°	113.9
67.5°	100.5
70°	87.0
72.5°	73.6
75°	61.0
77.5°	48.0
80°	36.3
82.5°	25.6
85°	14.8
87.5°	5.8
90°	0.0



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— 0°-180°







(END OF REPORT)