

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: P784791

Luminaire Tested: LER4DD40BD010-EC4DR6040509030-4LBDP1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P784791
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-57)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4DD40BD010-EC4DR6040509030-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3416.5 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.83
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

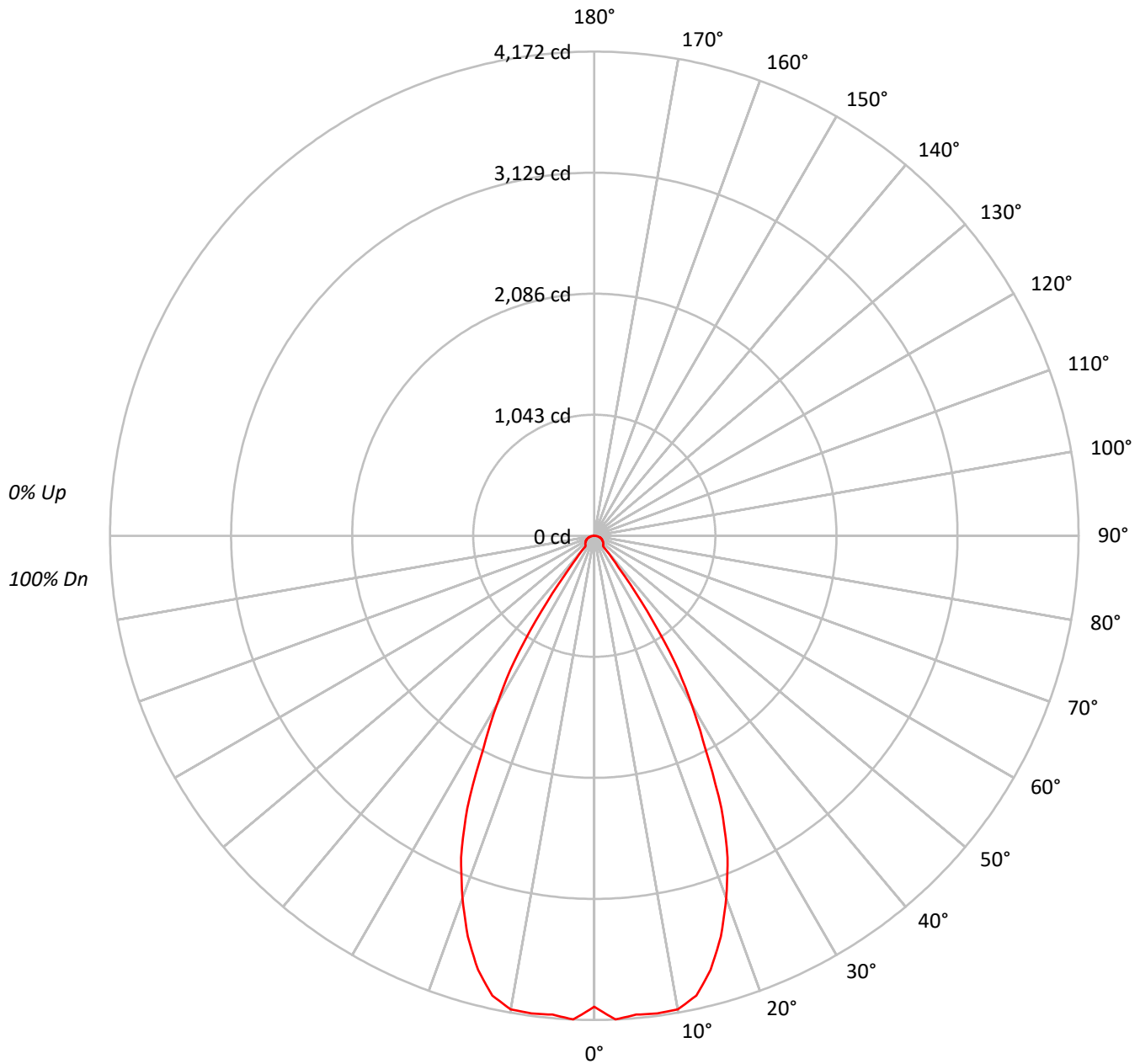


Downlight

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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
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	113	110	108	105	111	108	106	104	104	102	100		100	99	97		97
2	107	102	98	95	105	101	97	94	97	94	92		94	92	90		92
3	102	96	90	86	100	94	89	86	91	88	84		89	86	83		87
4	97	89	84	80	95	88	83	79	86	82	78		84	80	77		82
5	92	84	78	74	91	83	78	74	81	77	73		80	76	72		78
6	88	79	73	69	87	78	73	69	77	72	68		75	71	68		74
7	84	75	69	65	83	74	68	64	73	68	64		72	67	64		71
8	80	71	65	61	79	70	65	61	69	64	60		68	64	60		67
9	77	67	61	57	75	67	61	57	66	61	57		65	60	57		64
10	73	64	58	54	72	63	58	54	62	58	54		62	57	54		61

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	443326
5°	454232
10°	459717
15°	437948
20°	386131
25°	312312
30°	211248
35°	105866
40°	17173
45°	16812
50°	17151
55°	17411
60°	17875
65°	18304
70°	18720
75°	18955
80°	18247
85°	15169

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 75°

Luminance: 18955 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	395.8	11.6
10°-20°	1070.9	31.3
20°-30°	1152.2	33.7
30°-40°	500.9	14.7
40°-50°	84.1	2.5
50°-60°	81.8	2.4
60°-70°	70.0	2.0
70°-80°	46.8	1.4
80°-90°	14.0	0.4
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°	2619.0	76.7
0°-40°	3119.8	91.3
0°-60°	3285.8	96.2
0°-90°	3416.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3416.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4058	
5°	4142	396
15°	3872	1071
25°	2591	1152
35°	794	501
45°	109	84
55°	91	82
65°	71	70
75°	45	47
85°	12	14
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4057.5
2.5°	4171.6
5°	4141.5
7.5°	4151.0
10°	4143.6
12.5°	4058.1
15°	3871.7
17.5°	3621.4
20°	3320.9
22.5°	2999.3
25°	2590.6
27.5°	2072.1
30°	1674.4
32.5°	1290.6
35°	793.7
37.5°	339.5
40°	120.4
42.5°	110.9
45°	108.8
47.5°	105.1
50°	100.9
52.5°	96.1
55°	91.4
57.5°	86.6
60°	81.8
62.5°	76.6
65°	70.8
67.5°	65.0
70°	58.6
72.5°	51.7
75°	44.9
77.5°	37.0
80°	29.0
82.5°	20.6
85°	12.1
87.5°	4.2
90°	0.0



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— 0°-180°







(END OF REPORT)