

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: P784803

Luminaire Tested: LER4DD40BD010-EC4DR6040509050-4LBDP1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P784803
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-EC4DR6040509050-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3639.7 lumens
Efficiency: N/A
Efficacy: 103.4 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

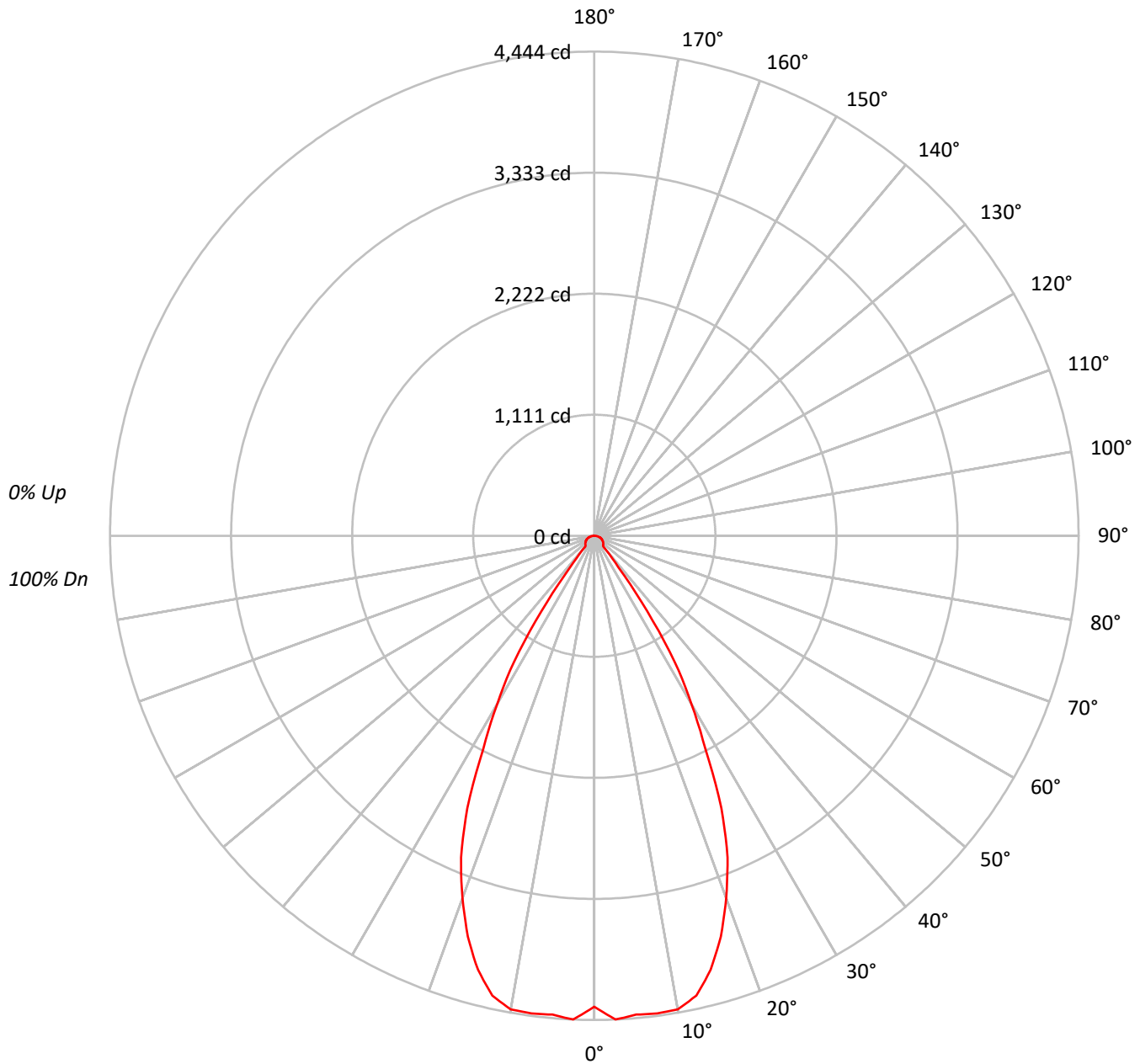


Downlight

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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°	472291
5°	483911
10°	489750
15°	466554
20°	411362
25°	332722
30°	225050
35°	112775
40°	18299
45°	17909
50°	18256
55°	18535
60°	19055
65°	19493
70°	19934
75°	20179
80°	19443
85°	16172

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 75°

Luminance: 20179 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	421.7	11.6
10°-20°	1140.9	31.3
20°-30°	1227.5	33.7
30°-40°	533.6	14.7
40°-50°	89.6	2.5
50°-60°	87.1	2.4
60°-70°	74.5	2.0
70°-80°	49.9	1.4
80°-90°	14.9	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°	2790.1	76.7
0°-40°	3323.7	91.3
0°-60°	3500.4	96.2
0°-90°	3639.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3639.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4323	
5°	4412	422
15°	4125	1141
25°	2760	1228
35°	846	534
45°	116	90
55°	97	87
65°	75	75
75°	48	50
85°	13	15
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4322.6
2.5°	4444.1
5°	4412.1
7.5°	4422.2
10°	4414.3
12.5°	4323.2
15°	4124.6
17.5°	3858.0
20°	3537.9
22.5°	3195.3
25°	2759.9
27.5°	2207.4
30°	1783.8
32.5°	1374.9
35°	845.5
37.5°	361.7
40°	128.3
42.5°	118.1
45°	115.9
47.5°	111.9
50°	107.4
52.5°	102.4
55°	97.3
57.5°	92.3
60°	87.2
62.5°	81.6
65°	75.4
67.5°	69.2
70°	62.4
72.5°	55.1
75°	47.8
77.5°	39.4
80°	30.9
82.5°	21.9
85°	12.9
87.5°	4.5
90°	0.0



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— 0°-180°







(END OF REPORT)