

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: P785263

Luminaire Tested: LER4DD50D010-EC4DR6040509024-4LBDP1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P785263
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: LER4DD50D010-EC4DR6040509024-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3766.1 lumens
Efficiency: N/A
Efficacy: 80.1 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): 47
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

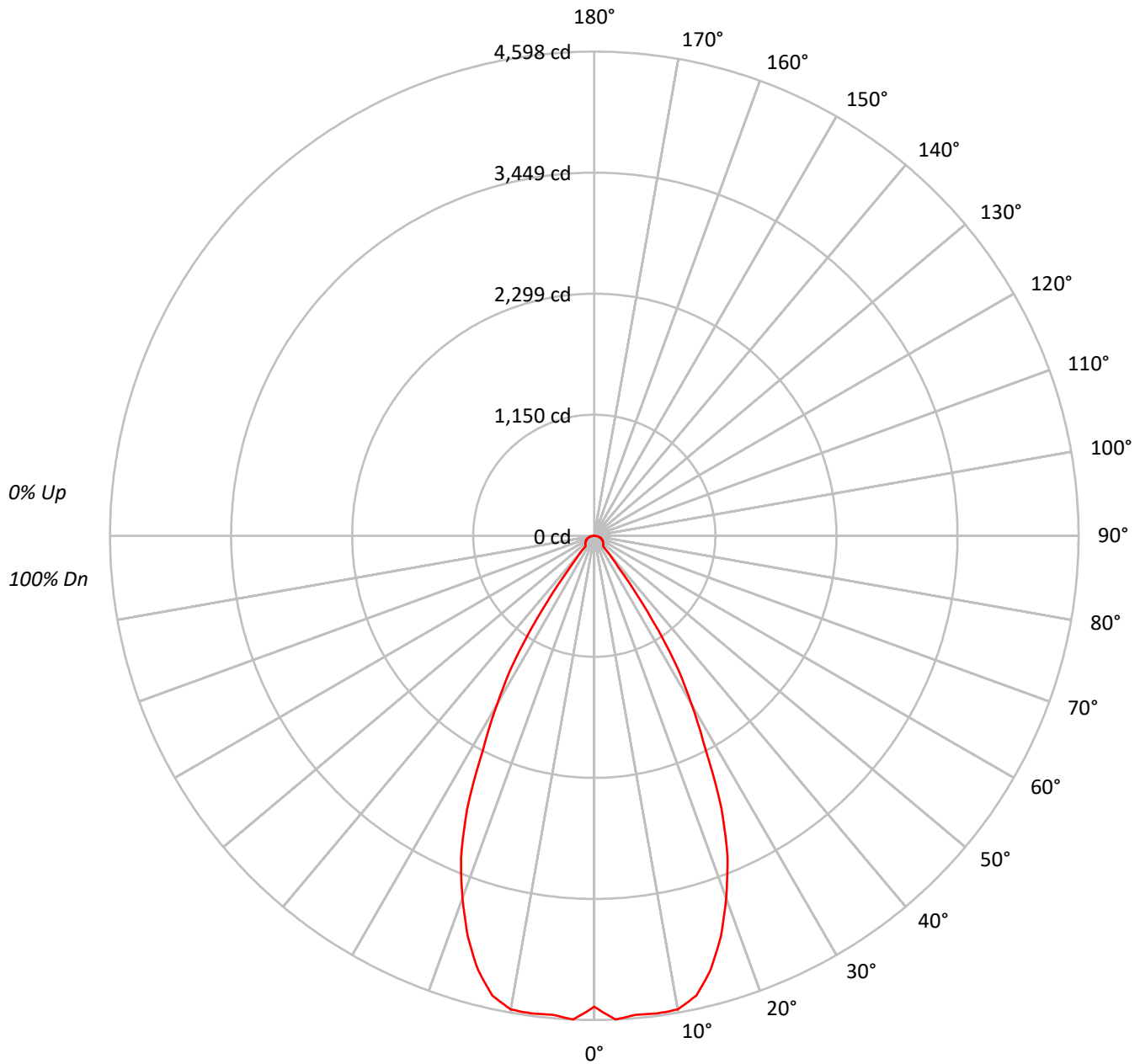


Downlight

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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°	488691
5°	500713
10°	506758
15°	482764
20°	425640
25°	344271
30°	232872
35°	116697
40°	18927
45°	18527
50°	18902
55°	19182
60°	19711
65°	20166
70°	20637
75°	20896
80°	20135
85°	16799

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 75°

Luminance: 20896 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	436.3	11.6
10°-20°	1180.5	31.3
20°-30°	1270.1	33.7
30°-40°	552.1	14.7
40°-50°	92.7	2.5
50°-60°	90.2	2.4
60°-70°	77.1	2.0
70°-80°	51.6	1.4
80°-90°	15.4	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°	2887.0	76.7
0°-40°	3439.1	91.3
0°-60°	3621.9	96.2
0°-90°	3766.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3766.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4473	
5°	4565	436
15°	4268	1181
25°	2856	1270
35°	875	552
45°	120	93
55°	101	90
65°	78	77
75°	50	52
85°	13	15
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4472.7
2.5°	4598.5
5°	4565.3
7.5°	4575.8
10°	4567.6
12.5°	4473.3
15°	4267.9
17.5°	3991.9
20°	3660.7
22.5°	3306.2
25°	2855.7
27.5°	2284.1
30°	1845.8
32.5°	1422.6
35°	874.9
37.5°	374.3
40°	132.7
42.5°	122.2
45°	119.9
47.5°	115.8
50°	111.2
52.5°	105.9
55°	100.7
57.5°	95.5
60°	90.2
62.5°	84.4
65°	78.0
67.5°	71.6
70°	64.6
72.5°	57.0
75°	49.5
77.5°	40.7
80°	32.0
82.5°	22.7
85°	13.4
87.5°	4.7
90°	0.0



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— 0°-180°







(END OF REPORT)