

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: P784783

Luminaire Tested: LER4DD40BD010-EC4DR6040509024-4LBDP1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P784783
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-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: 2927.5 lumens
Efficiency: N/A
Efficacy: 83.2 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

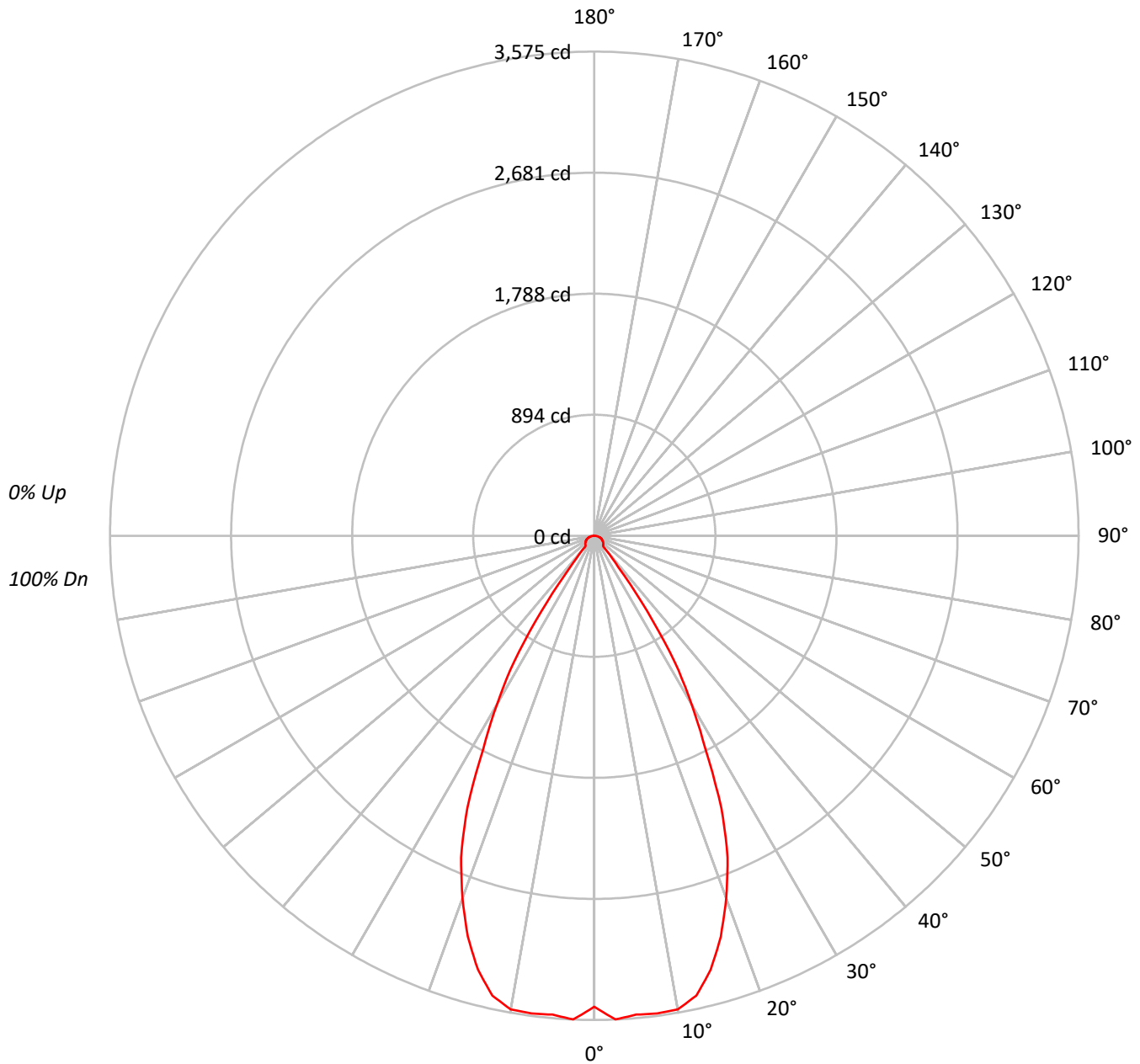


Downlight

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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	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	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93		
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86		
3	102	96	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80		
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75		
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70		
6	88	79	73	69	87	78	73	69	77	72	68	75	71	68	74	70	67	66		
7	84	75	69	65	83	74	68	64	73	68	64	72	67	64	71	67	63	62		
8	80	71	65	61	79	70	65	61	69	64	60	68	64	60	67	63	60	59		
9	77	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55		
10	73	64	58	54	72	63	58	54	62	58	54	62	57	54	61	57	54	53		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	379889
5°	389226
10°	393926
15°	375271
20°	330866
25°	267622
30°	181019
35°	90714
40°	14719
45°	14401
50°	14686
55°	14915
60°	15318
65°	15667
70°	16037
75°	16253
80°	15667
85°	13038

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 75°

Luminance: 16253 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.2	11.6
10°-20°	917.7	31.3
20°-30°	987.3	33.7
30°-40°	429.2	14.7
40°-50°	72.1	2.5
50°-60°	70.1	2.4
60°-70°	59.9	2.0
70°-80°	40.1	1.4
80°-90°	12.0	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°	2244.2	76.7
0°-40°	2673.3	91.3
0°-60°	2815.5	96.2
0°-90°	2927.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2927.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3477	
5°	3549	339
15°	3318	918
25°	2220	987
35°	680	429
45°	93	72
55°	78	70
65°	61	60
75°	38	40
85°	10	12
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3476.9
2.5°	3574.6
5°	3548.8
7.5°	3556.9
10°	3550.6
12.5°	3477.3
15°	3317.6
17.5°	3103.1
20°	2845.6
22.5°	2570.1
25°	2219.9
27.5°	1775.5
30°	1434.8
32.5°	1105.9
35°	680.1
37.5°	290.9
40°	103.2
42.5°	95.0
45°	93.2
47.5°	90.0
50°	86.4
52.5°	82.4
55°	78.3
57.5°	74.2
60°	70.1
62.5°	65.6
65°	60.6
67.5°	55.7
70°	50.2
72.5°	44.3
75°	38.5
77.5°	31.7
80°	24.9
82.5°	17.6
85°	10.4
87.5°	3.6
90°	0.0



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— 0°-180°







(END OF REPORT)