

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: P785042

Luminaire Tested: LER4DD45BD010-EC4DR6040509050-4LBDP1LI

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P785042
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: LER4DD45BD010-EC4DR6040509050-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4622.5 lumens
Efficiency: N/A
Efficacy: 119.4 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): 38.7
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

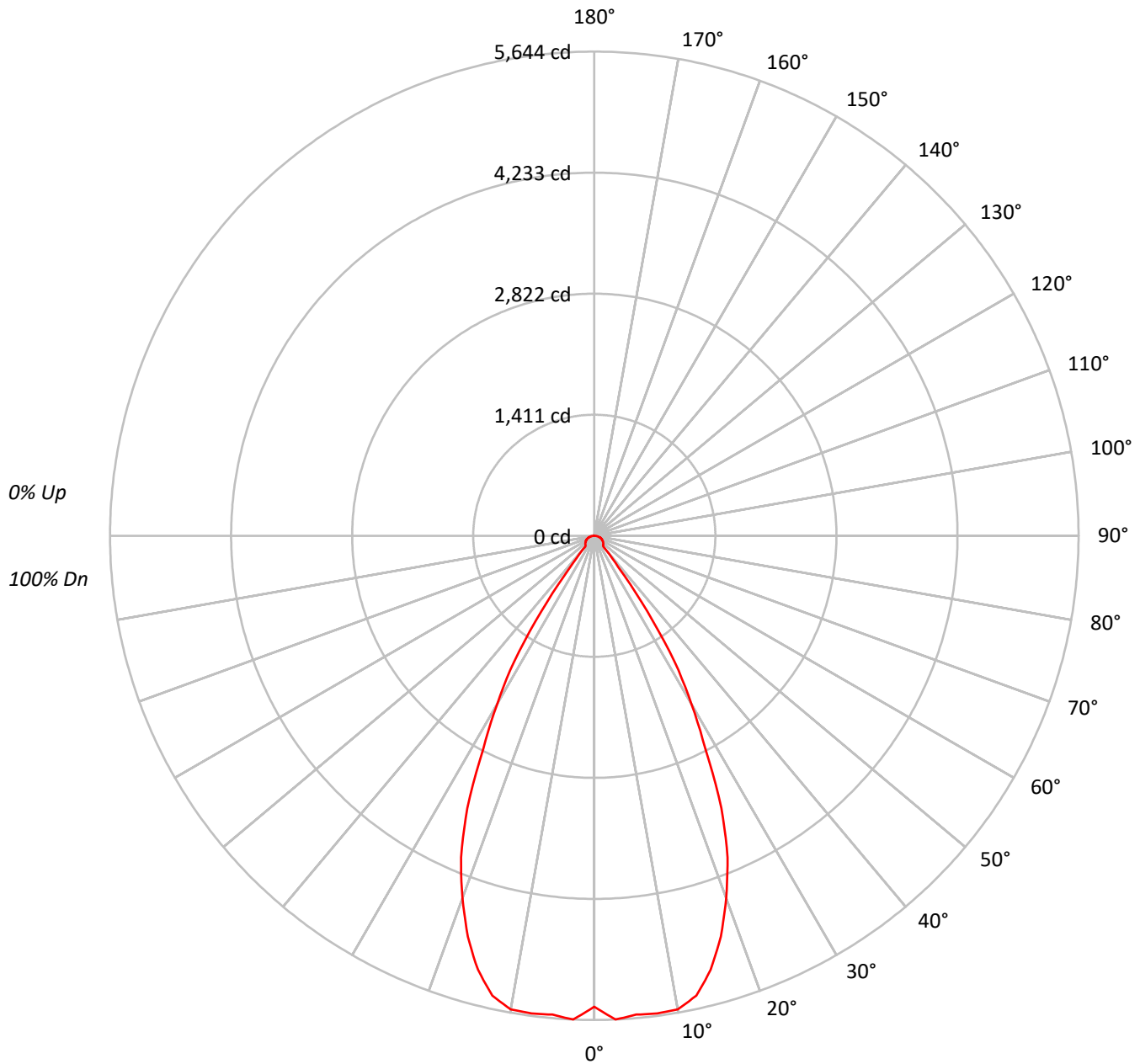


Downlight

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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				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0			
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°	599831
5°	614581
10°	622009
15°	592542
20°	522437
25°	422560
30°	285823
35°	143226
40°	23234
45°	22745
50°	23202
55°	23545
60°	24190
65°	24742
70°	25333
75°	25625
80°	24728
85°	20559

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 75°

Luminance: 25625 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	535.6	11.6
10°-20°	1449.0	31.3
20°-30°	1559.0	33.7
30°-40°	677.6	14.7
40°-50°	113.8	2.5
50°-60°	110.7	2.4
60°-70°	94.6	2.0
70°-80°	63.3	1.4
80°-90°	18.9	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°	3543.5	76.7
0°-40°	4221.1	91.3
0°-60°	4445.6	96.2
0°-90°	4622.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4622.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5490	
5°	5604	536
15°	5238	1449
25°	3505	1559
35°	1074	678
45°	147	114
55°	124	111
65°	96	95
75°	61	63
85°	16	19
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5489.9
2.5°	5644.2
5°	5603.5
7.5°	5616.4
10°	5606.4
12.5°	5490.6
15°	5238.4
17.5°	4899.8
20°	4493.2
22.5°	4058.1
25°	3505.1
27.5°	2803.5
30°	2265.5
32.5°	1746.1
35°	1073.8
37.5°	459.4
40°	162.9
42.5°	150.0
45°	147.2
47.5°	142.2
50°	136.5
52.5°	130.0
55°	123.6
57.5°	117.2
60°	110.7
62.5°	103.6
65°	95.7
67.5°	87.9
70°	79.3
72.5°	70.0
75°	60.7
77.5°	50.0
80°	39.3
82.5°	27.9
85°	16.4
87.5°	5.7
90°	0.0



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— 0°-180°







(END OF REPORT)