

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: P785041

Luminaire Tested: LER4DD45BD010-EC4DR6040509050-4LBDP1H

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P785041
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-EC4DR6040509050-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-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: 4402.4 lumens
Efficiency: N/A
Efficacy: 113.8 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 (A_{in}): 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

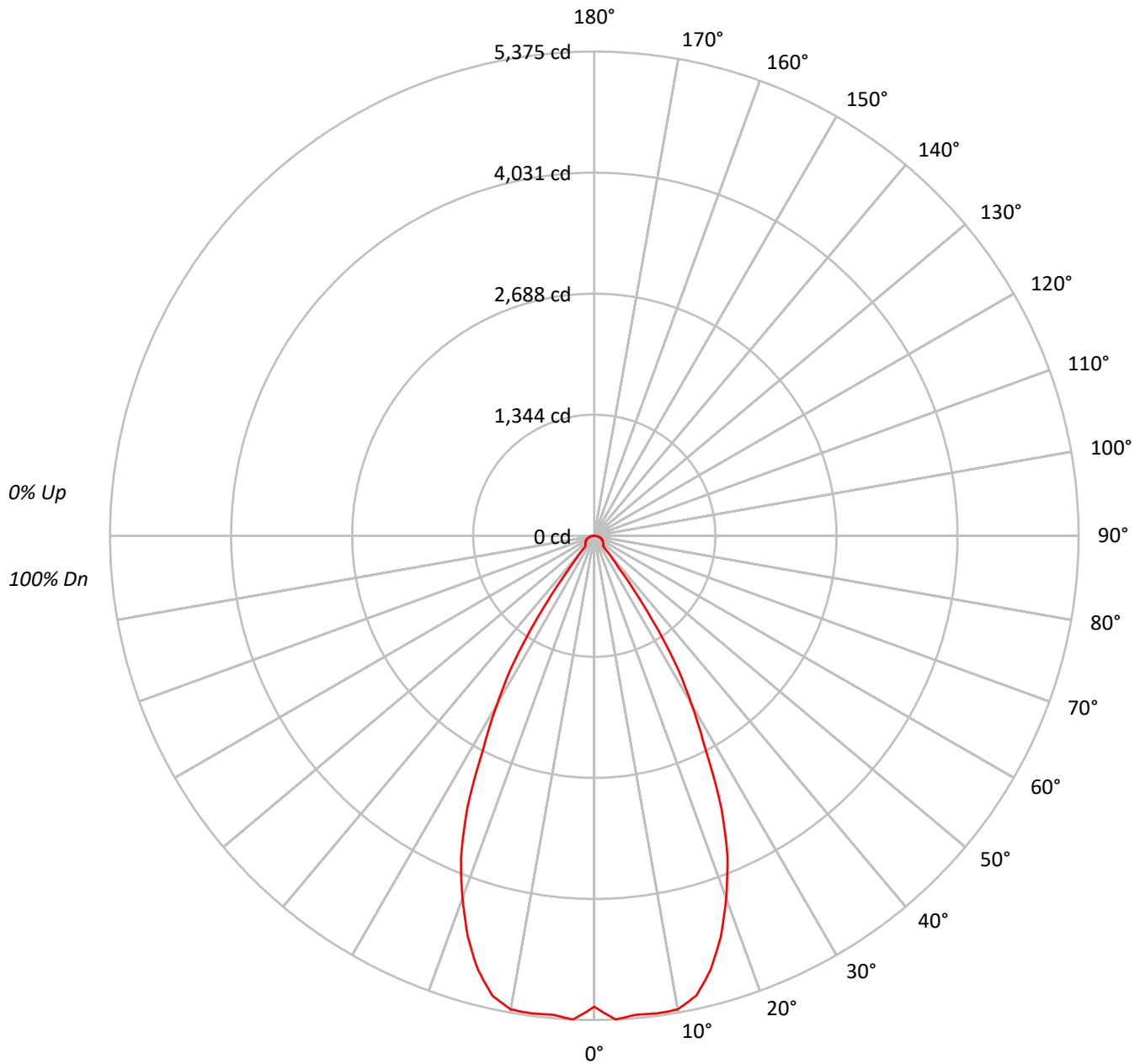


Downlight

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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°	571270
5°	585319
10°	592387
15°	564331
20°	497566
25°	402440
30°	272223
35°	136411
40°	22122
45°	21663
50°	22097
55°	22421
60°	23054
65°	23578
70°	24119
75°	24400
80°	23532
85°	19682

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 75°

Luminance: 24400 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	510.1	11.6
10°-20°	1380.0	31.3
20°-30°	1484.7	33.7
30°-40°	645.4	14.7
40°-50°	108.4	2.5
50°-60°	105.4	2.4
60°-70°	90.2	2.0
70°-80°	60.3	1.4
80°-90°	18.0	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°	3374.8	76.7
0°-40°	4020.2	91.3
0°-60°	4234.0	96.2
0°-90°	4402.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4402.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5228	
5°	5337	510
15°	4989	1380
25°	3338	1485
35°	1023	645
45°	140	108
55°	118	105
65°	91	90
75°	58	60
85°	16	18
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5228.5
2.5°	5375.4
5°	5336.7
7.5°	5348.9
10°	5339.4
12.5°	5229.2
15°	4989.0
17.5°	4666.4
20°	4279.3
22.5°	3864.9
25°	3338.2
27.5°	2670.0
30°	2157.7
32.5°	1663.0
35°	1022.7
37.5°	437.5
40°	155.1
42.5°	142.9
45°	140.2
47.5°	135.4
50°	130.0
52.5°	123.8
55°	117.7
57.5°	111.6
60°	105.5
62.5°	98.7
65°	91.2
67.5°	83.7
70°	75.5
72.5°	66.7
75°	57.8
77.5°	47.6
80°	37.4
82.5°	26.5
85°	15.7
87.5°	5.4
90°	0.0



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— 0°-180°







(END OF REPORT)