

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: P785038

Luminaire Tested: LER4DD45BD010-EC4DR6040509040-4LBDP1LI

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P785038
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-EC4DR6040509040-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4589.8 lumens
Efficiency: N/A
Efficacy: 118.6 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

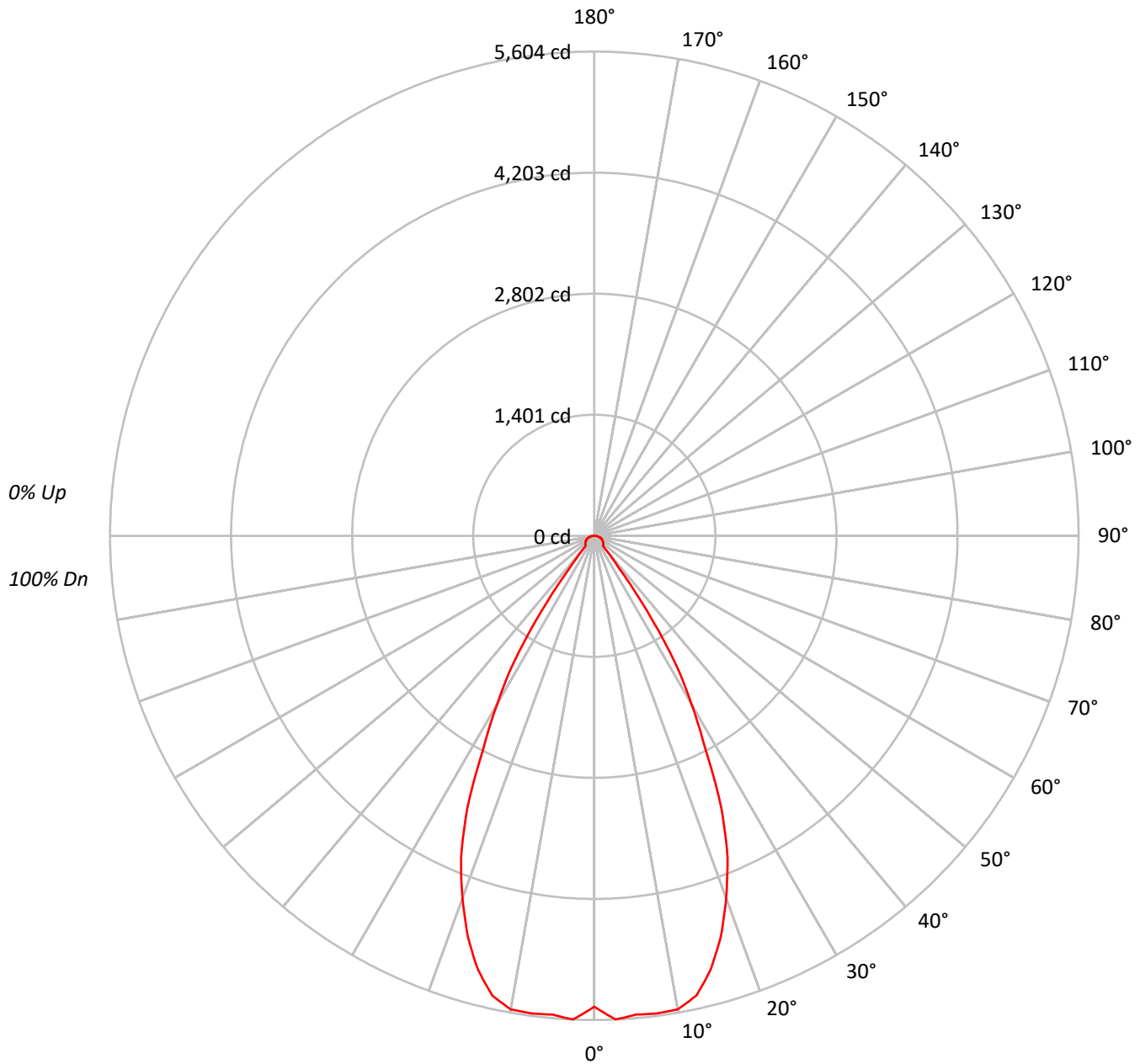


Downlight

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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	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°	595580
5°	610227
10°	617594
15°	588345
20°	518740
25°	419571
30°	283805
35°	142213
40°	23063
45°	22575
50°	23032
55°	23373
60°	24037
65°	24586
70°	25141
75°	25456
80°	24539
85°	20434

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 75°

Luminance: 25456 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	531.8	11.6
10°-20°	1438.7	31.3
20°-30°	1547.9	33.7
30°-40°	672.8	14.7
40°-50°	113.0	2.5
50°-60°	109.9	2.4
60°-70°	94.0	2.0
70°-80°	62.9	1.4
80°-90°	18.8	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°	3518.4	76.7
0°-40°	4191.2	91.3
0°-60°	4414.1	96.2
0°-90°	4589.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4589.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5451	
5°	5564	532
15°	5201	1439
25°	3480	1548
35°	1066	673
45°	146	113
55°	123	110
65°	95	94
75°	60	63
85°	16	19
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5451.0
2.5°	5604.2
5°	5563.8
7.5°	5576.5
10°	5566.6
12.5°	5451.7
15°	5201.3
17.5°	4865.0
20°	4461.4
22.5°	4029.3
25°	3480.3
27.5°	2783.7
30°	2249.5
32.5°	1733.8
35°	1066.2
37.5°	456.1
40°	161.7
42.5°	149.0
45°	146.1
47.5°	141.2
50°	135.5
52.5°	129.1
55°	122.7
57.5°	116.3
60°	110.0
62.5°	102.9
65°	95.1
67.5°	87.3
70°	78.7
72.5°	69.5
75°	60.3
77.5°	49.7
80°	39.0
82.5°	27.7
85°	16.3
87.5°	5.7
90°	0.0



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— 0°-180°







(END OF REPORT)