

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: P785030

Luminaire Tested: LER4DD45BD010-EC4DR6040509030-4LBDP1LI

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P785030
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-EC4DR6040509030-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4339.1 lumens
Efficiency: N/A
Efficacy: 112.1 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): 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

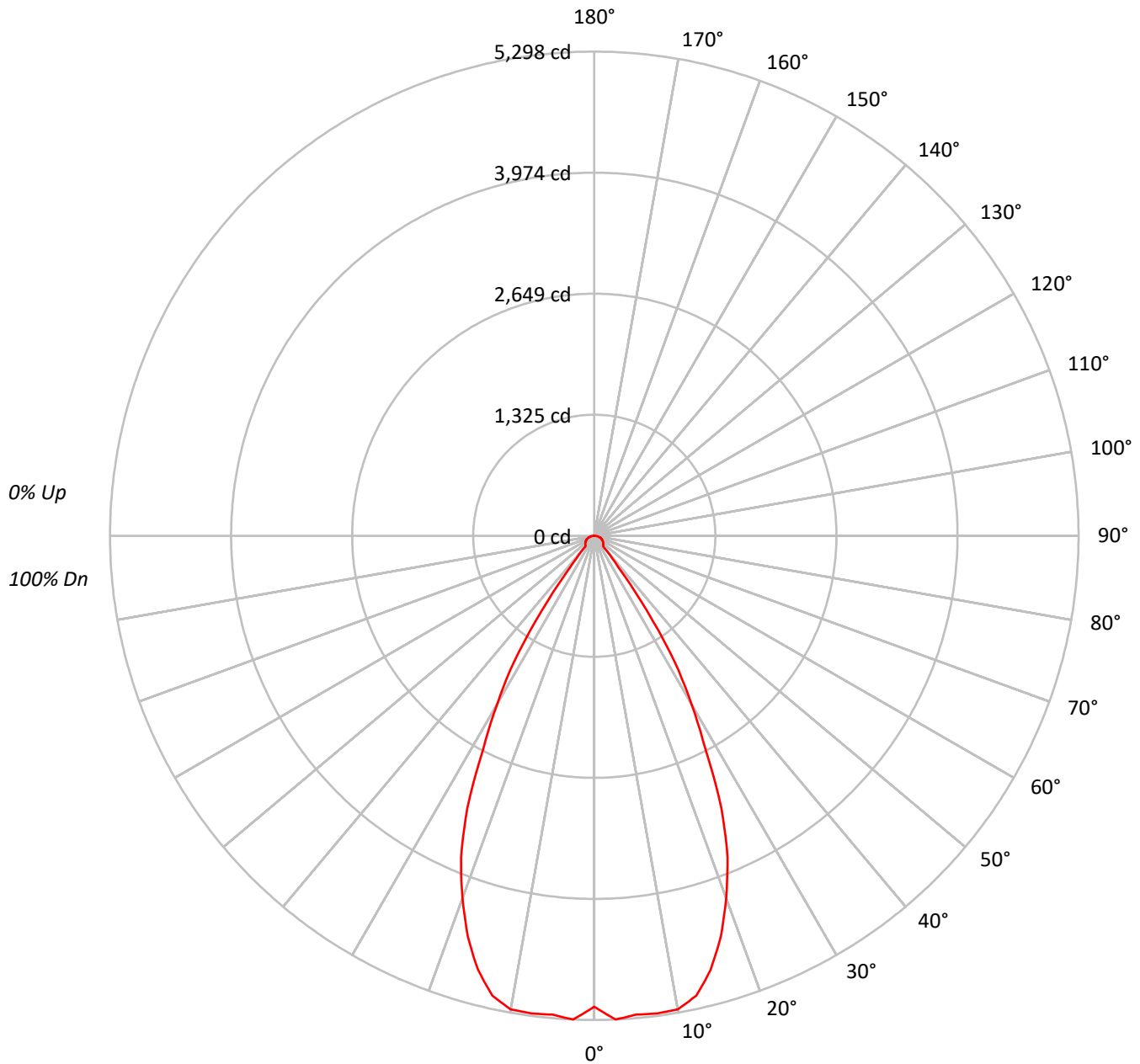


Downlight

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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
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°	563043
5°	576896
10°	583855
15°	556209
20°	490404
25°	396653
30°	268299
35°	134450
40°	21808
45°	21354
50°	21774
55°	22097
60°	22704
65°	23242
70°	23768
75°	24063
80°	23218
85°	19306

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 75°

Luminance: 24063 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	502.7	11.6
10°-20°	1360.1	31.3
20°-30°	1463.4	33.7
30°-40°	636.1	14.7
40°-50°	106.8	2.5
50°-60°	103.9	2.4
60°-70°	88.8	2.0
70°-80°	59.4	1.4
80°-90°	17.8	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°	3326.2	76.7
0°-40°	3962.3	91.3
0°-60°	4173.0	96.2
0°-90°	4339.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4339.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5153	
5°	5260	503
15°	4917	1360
25°	3290	1463
35°	1008	636
45°	138	107
55°	116	104
65°	90	89
75°	57	59
85°	15	18
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5153.2
2.5°	5298.1
5°	5259.9
7.5°	5271.9
10°	5262.5
12.5°	5153.9
15°	4917.2
17.5°	4599.3
20°	4217.7
22.5°	3809.3
25°	3290.2
27.5°	2631.6
30°	2126.6
32.5°	1639.1
35°	1008.0
37.5°	431.2
40°	152.9
42.5°	140.8
45°	138.2
47.5°	133.5
50°	128.1
52.5°	122.1
55°	116.0
57.5°	110.0
60°	103.9
62.5°	97.2
65°	89.9
67.5°	82.5
70°	74.4
72.5°	65.7
75°	57.0
77.5°	46.9
80°	36.9
82.5°	26.2
85°	15.4
87.5°	5.4
90°	0.0



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— 0°-180°







(END OF REPORT)