

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: P785266

Luminaire Tested: LER4DD50D010-EC4DR6040509027-4LBDP1LI

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P785266
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: LER4DD50D010-EC4DR6040509027-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4946.4 lumens
Efficiency: N/A
Efficacy: 105.2 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): 47
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

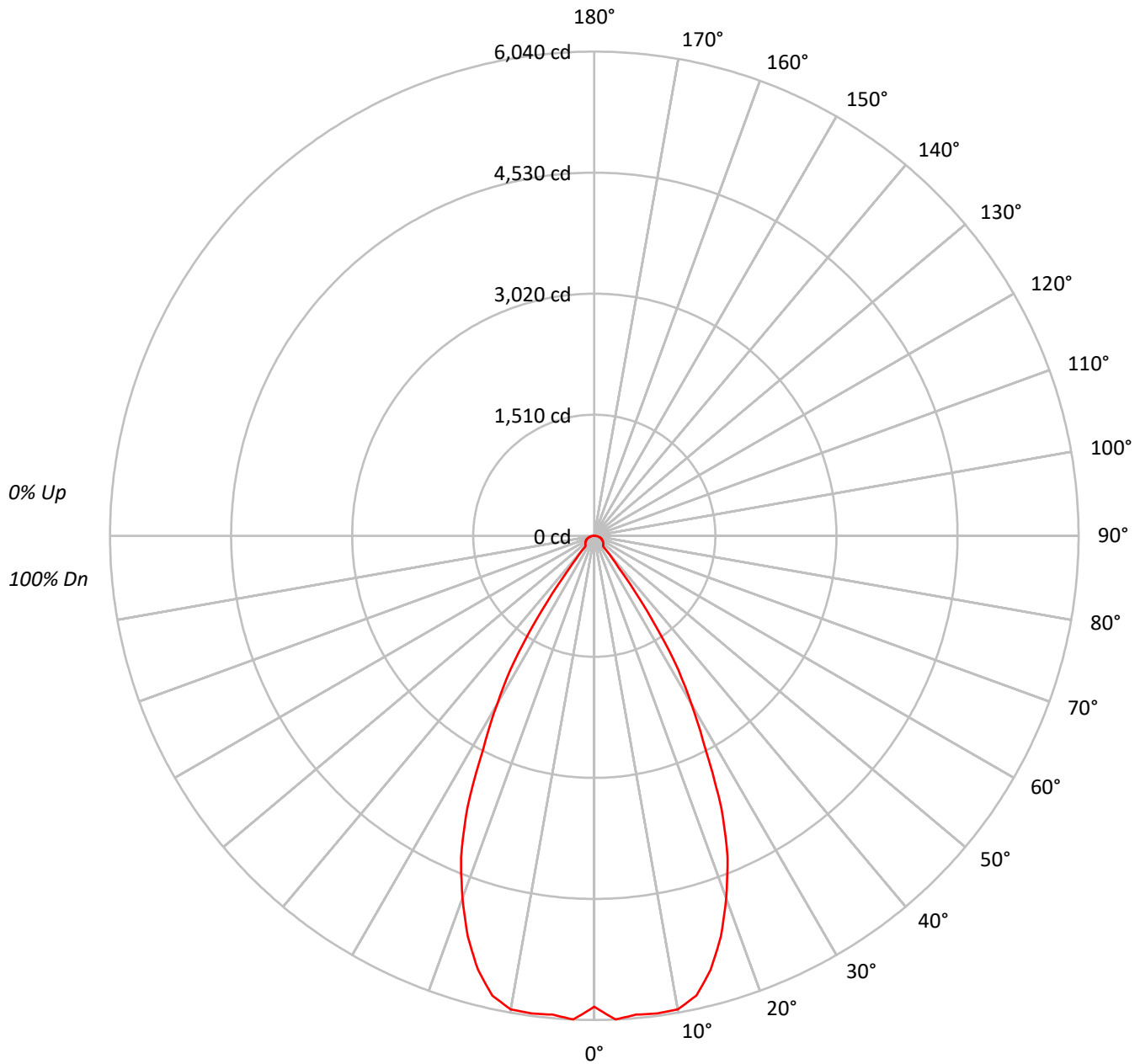


Downlight

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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	113	110	108	105	111	108	106	104	104	102	100		100	99	97		97
2	107	102	98	95	105	101	97	94	97	94	92		94	92	90		92
3	102	96	90	86	100	94	89	86	91	88	84		89	86	83		87
4	97	89	84	80	95	88	83	79	86	82	78		84	80	77		82
5	92	84	78	74	91	83	78	74	81	77	73		80	76	72		78
6	88	79	73	69	87	78	73	69	77	72	68		75	71	68		74
7	84	75	69	65	83	74	68	64	73	68	64		72	67	64		71
8	80	71	65	61	79	70	65	61	69	64	60		68	64	60		67
9	77	67	61	57	75	67	61	57	66	61	57		65	60	57		64
10	73	64	58	54	72	63	58	54	62	58	54		62	57	54		61

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	641852
5°	657630
10°	665578
15°	634055
20°	559040
25°	452169
30°	305845
35°	153270
40°	24860
45°	24337
50°	24817
55°	25202
60°	25895
65°	26474
70°	27122
75°	27440
80°	26427
85°	22064

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 75°

Luminance: 27440 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	573.1	11.6
10°-20°	1550.5	31.3
20°-30°	1668.2	33.7
30°-40°	725.1	14.7
40°-50°	121.8	2.5
50°-60°	118.4	2.4
60°-70°	101.3	2.0
70°-80°	67.8	1.4
80°-90°	20.3	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°	3791.7	76.7
0°-40°	4516.9	91.3
0°-60°	4757.1	96.2
0°-90°	4946.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4946.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5874	
5°	5996	573
15°	5605	1550
25°	3751	1668
35°	1149	725
45°	158	122
55°	132	118
65°	102	101
75°	65	68
85°	18	20
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5874.5
2.5°	6039.6
5°	5996.0
7.5°	6009.8
10°	5999.1
12.5°	5875.2
15°	5605.4
17.5°	5243.0
20°	4808.0
22.5°	4342.4
25°	3750.7
27.5°	2999.9
30°	2424.2
32.5°	1868.5
35°	1149.1
37.5°	491.6
40°	174.3
42.5°	160.5
45°	157.5
47.5°	152.1
50°	146.0
52.5°	139.1
55°	132.3
57.5°	125.4
60°	118.5
62.5°	110.9
65°	102.4
67.5°	94.0
70°	84.9
72.5°	74.9
75°	65.0
77.5°	53.5
80°	42.0
82.5°	29.8
85°	17.6
87.5°	6.1
90°	0.0



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— 0°-180°







(END OF REPORT)