

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: P785276

Luminaire Tested: LER4DD50D010-EC4DR6040509040-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P785276
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-EC4DR6040509040-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4042.6 lumens
Efficiency: N/A
Efficacy: 86.0 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

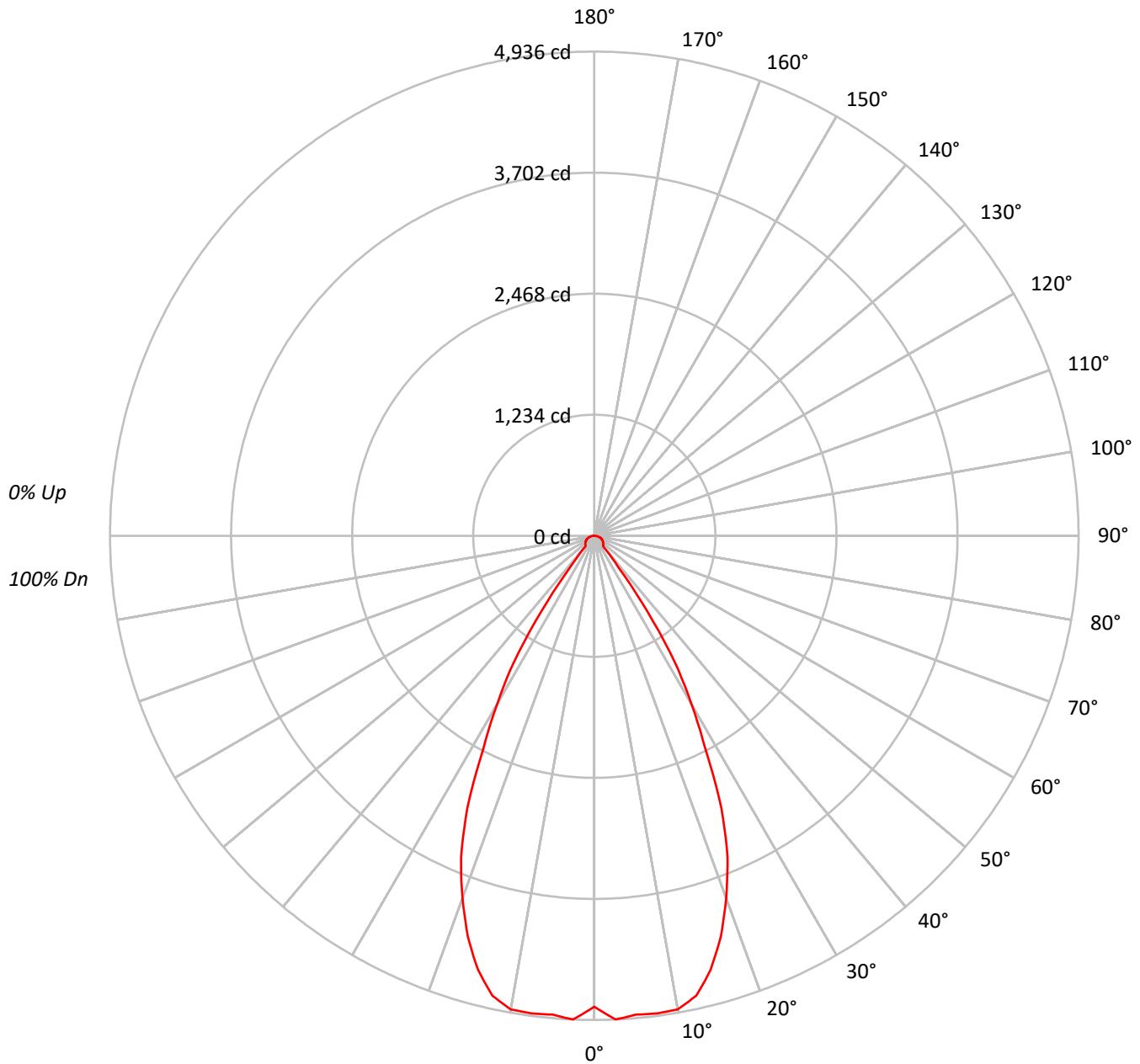


Downlight

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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°	524572
5°	537467
10°	543959
15°	518203
20°	456894
25°	369540
30°	249968
35°	125260
40°	20325
45°	19886
50°	20279
55°	20592
60°	21153
65°	21639
70°	22170
75°	22416
80°	21645
85°	18052

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 75°

Luminance: 22416 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	468.4	11.6
10°-20°	1267.2	31.3
20°-30°	1363.4	33.7
30°-40°	592.6	14.7
40°-50°	99.5	2.5
50°-60°	96.8	2.4
60°-70°	82.8	2.0
70°-80°	55.4	1.4
80°-90°	16.6	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°	3098.9	76.7
0°-40°	3691.6	91.3
0°-60°	3887.9	96.2
0°-90°	4042.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4042.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4801	
5°	4900	468
15°	4581	1267
25°	3065	1363
35°	939	593
45°	129	100
55°	108	97
65°	84	83
75°	53	55
85°	14	17
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4801.1
2.5°	4936.0
5°	4900.4
7.5°	4911.7
10°	4902.9
12.5°	4801.7
15°	4581.2
17.5°	4285.0
20°	3929.5
22.5°	3549.0
25°	3065.3
27.5°	2451.8
30°	1981.3
32.5°	1527.1
35°	939.1
37.5°	401.8
40°	142.5
42.5°	131.2
45°	128.7
47.5°	124.3
50°	119.3
52.5°	113.7
55°	108.1
57.5°	102.5
60°	96.8
62.5°	90.6
65°	83.7
67.5°	76.9
70°	69.4
72.5°	61.2
75°	53.1
77.5°	43.7
80°	34.4
82.5°	24.4
85°	14.4
87.5°	5.0
90°	0.0



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— 0°-180°







(END OF REPORT)