

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: P785294

Luminaire Tested: LER4DD50D010-EC4DR6540509030-4LBDP1LI

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P785294
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-59)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4DD50D010-EC4DR6540509030-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4452.6 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.92
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

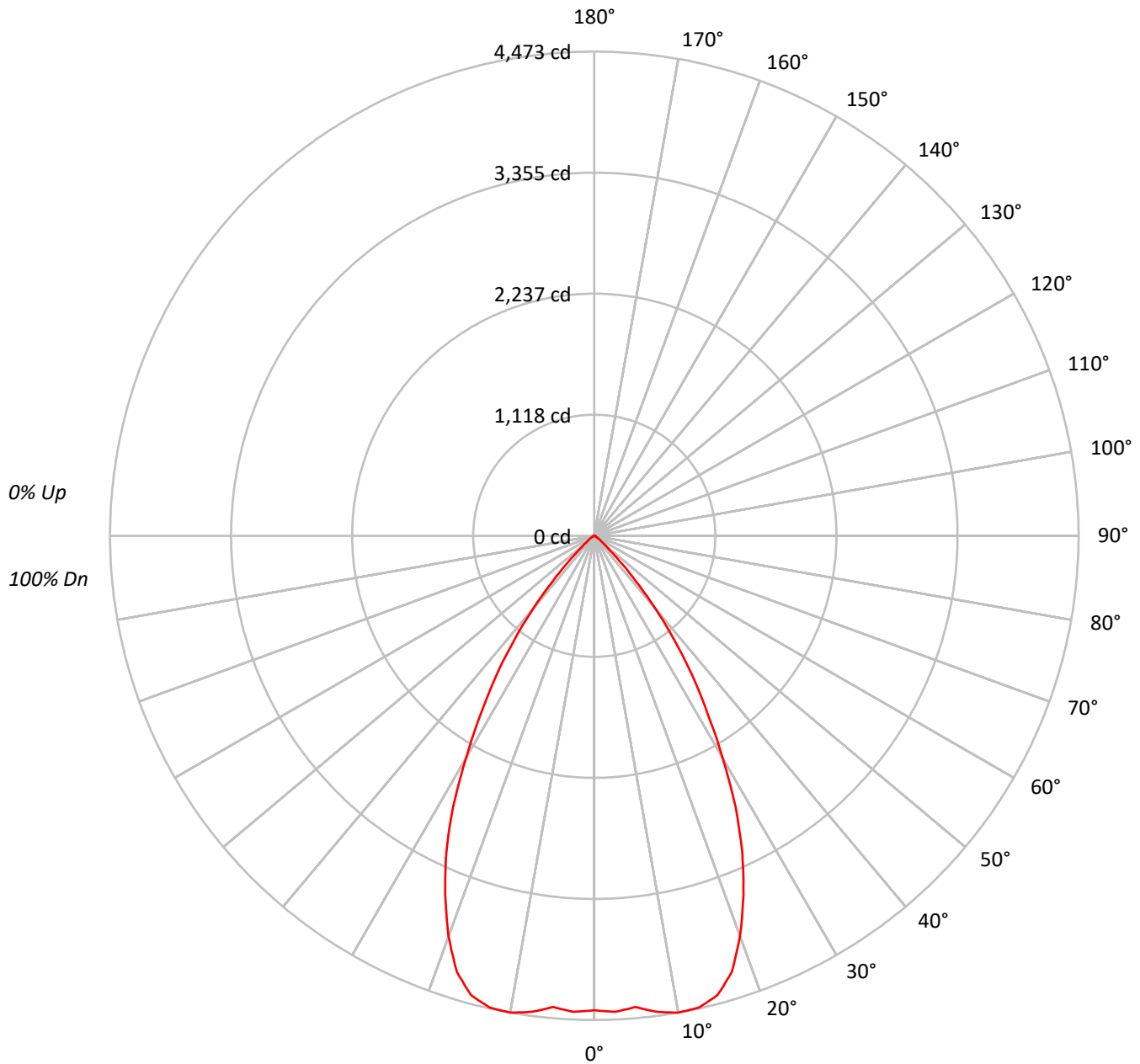


Downlight

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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				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	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93						
2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87						
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80						
4	97	89	84	79	95	88	83	79	86	82	78	84	80	77	82	79	76	75						
5	92	83	78	73	90	83	77	73	81	76	72	79	75	72	77	74	71	69						
6	87	78	72	68	86	77	72	68	76	71	67	74	70	67	73	69	66	65						
7	83	73	67	63	81	73	67	63	71	66	62	70	66	62	69	65	62	60						
8	79	69	63	59	77	68	63	59	67	62	58	66	62	58	65	61	58	57						
9	75	65	59	55	74	65	59	55	64	58	55	63	58	55	62	58	54	53						
10	71	61	56	52	70	61	55	52	60	55	51	59	55	51	59	54	51	50						

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	478988
5°	479381
10°	496263
15°	497084
20°	457650
25°	389938
30°	298515
35°	210891
40°	124487
45°	50543
50°	18324
55°	10210
60°	5856
65°	3232
70°	3386
75°	2617
80°	2769
85°	2382

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 50543 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	422.1	9.5
10°-20°	1217.7	27.3
20°-30°	1461.0	32.8
30°-40°	981.8	22.1
40°-50°	293.9	6.6
50°-60°	51.9	1.2
60°-70°	14.7	0.3
70°-80°	7.2	0.2
80°-90°	2.3	0.1
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°	3100.8	69.6
0°-40°	4082.6	91.7
0°-60°	4428.4	99.5
0°-90°	4452.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4452.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4384	
5°	4371	422
15°	4394	1218
25°	3234	1461
35°	1581	982
45°	327	294
55°	54	52
65°	12	15
75°	6	7
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4383.9
2.5°	4402.6
5°	4370.8
7.5°	4436.9
10°	4473.0
12.5°	4464.3
15°	4394.5
17.5°	4223.8
20°	3936.0
22.5°	3597.1
25°	3234.5
27.5°	2825.2
30°	2366.1
32.5°	1949.9
35°	1581.1
37.5°	1216.7
40°	872.8
42.5°	570.0
45°	327.1
47.5°	173.2
50°	107.8
52.5°	74.8
55°	53.6
57.5°	38.6
60°	26.8
62.5°	17.4
65°	12.5
67.5°	11.2
70°	10.6
72.5°	8.1
75°	6.2
77.5°	5.6
80°	4.4
82.5°	3.1
85°	1.9
87.5°	1.2
90°	0.0



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— 0°-180°







(END OF REPORT)