Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P781018

Luminaire Tested: LER4D35BD010-EC4DR3520359027-4LBS1LI

Issue Date: 1/30/2024

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Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P781018
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-20)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/30/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	PORTFOLIO
Catalog Number:	LER4D35BD010-EC4DR3520359027-4LBS1LI
Description:	4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 35° OPTIC
Light Source:	(1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3274.7 lumens
Efficiency:	N/A
Efficacy:	106.3 lumens/watt
Spacing Criteria (0/90/45):	0.6 / 0.6 / 0.54
Luminous Opening:	Circular (Dia: 0.35' x H: 0')
CIE Type:	Direct

Input Watts (W):	30.8
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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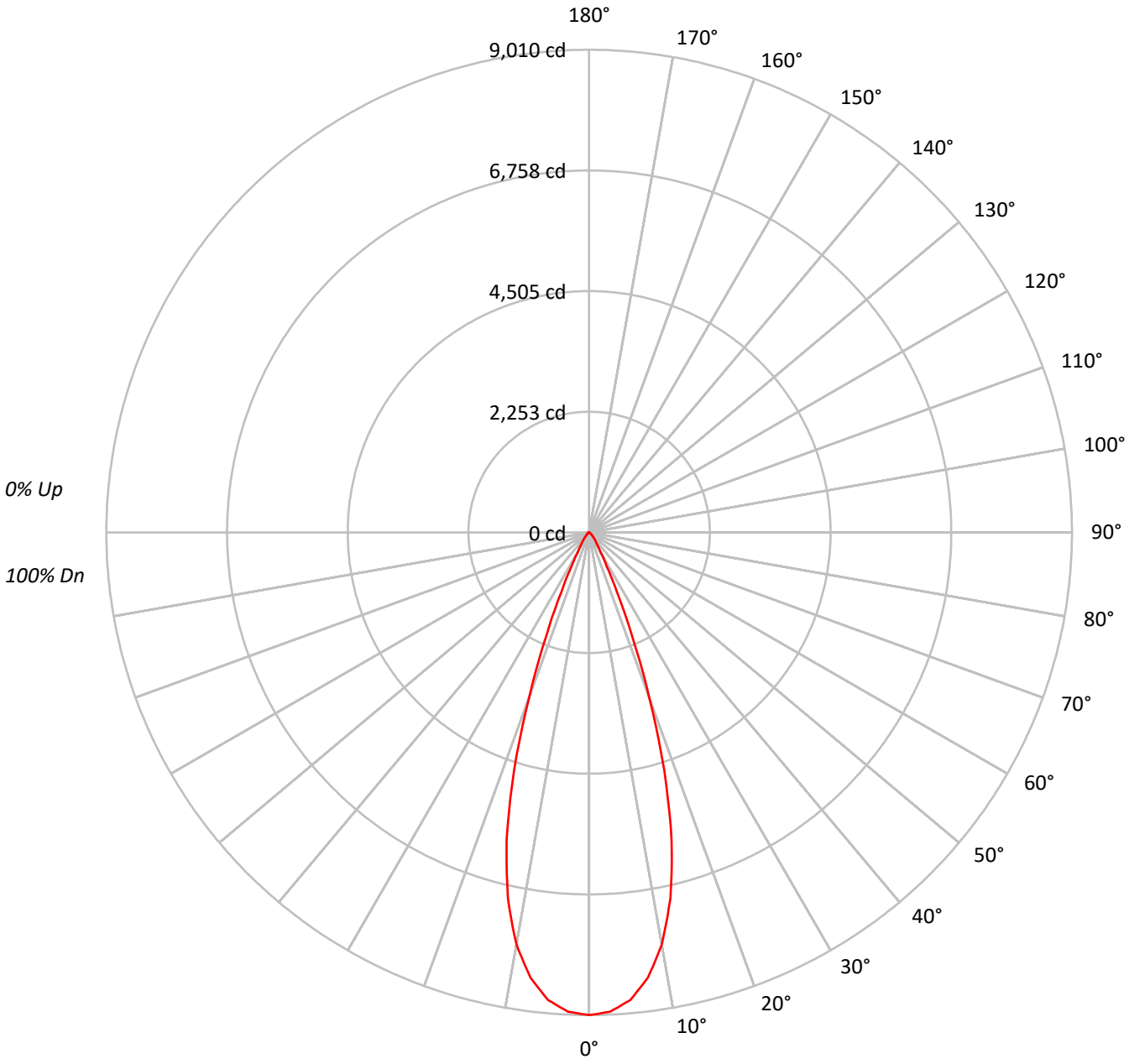
Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	115	112	110	108	112	110	108	107	106	105	103	103	101	100	99	98	98	96
2	110	106	103	101	108	105	102	99	102	99	97	99	97	95	96	95	93	92
3	106	101	97	94	105	100	96	93	97	95	92	95	93	91	93	91	89	88
4	103	97	92	89	101	96	92	89	94	90	88	92	89	87	90	88	86	84
5	99	93	88	85	98	92	87	84	90	86	84	89	85	83	87	84	82	81
6	96	89	84	81	94	88	84	81	87	83	80	85	82	80	84	81	79	78
7	93	85	81	78	91	85	80	77	84	80	77	83	79	77	82	79	76	75
8	90	82	78	74	88	82	77	74	81	77	74	80	76	74	79	76	73	72
9	87	79	75	72	86	79	75	72	78	74	71	77	74	71	77	73	71	70
10	84	77	72	69	83	76	72	69	76	72	69	75	71	69	74	71	69	68

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	984472
5°	961340
10°	866424
15°	672480
20°	381422
25°	148392
30°	55361
35°	30345
40°	19840
45°	12068
50°	7683
55°	5429
60°	3977
65°	2172
70°	160
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 12068 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	806.1	24.6
10°-20°	1573.9	48.1
20°-30°	641.9	19.6
30°-40°	153.6	4.7
40°-50°	64.0	2.0
50°-60°	26.5	0.8
60°-70°	8.3	0.3
70°-80°	0.2	0.0
80°-90°	0.1	0.0
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°	3022.0	92.3
0°-40°	3175.6	97.0
0°-60°	3266.1	99.7
0°-90°	3274.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3274.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9010	
5°	8765	806
15°	5945	1574
25°	1231	642
35°	228	154
45°	78	64
55°	28	27
65°	8	8
75°	0	0
85°	0	0
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	9010.3
2.5°	8956.2
5°	8765.1
7.5°	8383.8
10°	7809.4
12.5°	7000.6
15°	5945.1
17.5°	4654.3
20°	3280.4
22.5°	2091.8
25°	1230.9
27.5°	695.8
30°	438.8
32.5°	308.1
35°	227.5
37.5°	175.9
40°	139.1
42.5°	107.1
45°	78.1
47.5°	58.5
50°	45.2
52.5°	35.9
55°	28.5
57.5°	23.1
60°	18.2
62.5°	13.3
65°	8.4
67.5°	2.9
70°	0.5
72.5°	0.5
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.5
85°	0.0
87.5°	0.0
90°	0.0

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0°-180°

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(END OF REPORT)