

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: P781270

Luminaire Tested: LER4D40BD010-EC4DR3540509040-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781270
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: LER4D40BD010-EC4DR3540509040-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 35° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4200.9 lumens
Efficiency: N/A
Efficacy: 119.3 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): 35.2
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

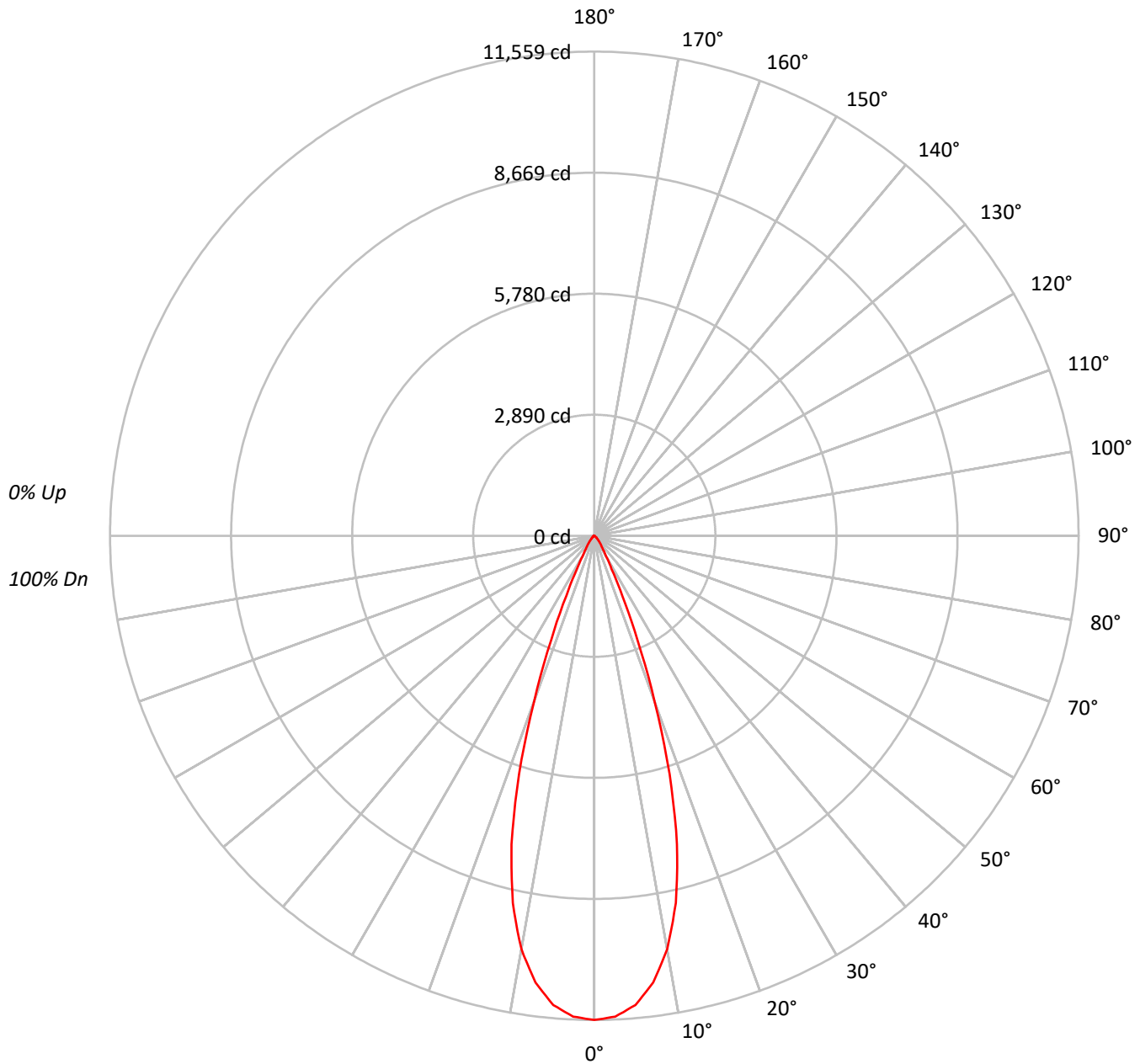


Downlight

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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					0
RW	70	50	30	10	70	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
1	115	112	110	108	112	110	108	107		106	105	103		103	101	100		99	98	98
2	110	106	103	101	108	105	102	99		102	99	97		99	97	95		96	95	93
3	106	101	97	94	105	100	96	93		97	95	92		95	93	91		93	91	89
4	103	97	92	89	101	96	92	89		94	90	88		92	89	87		90	88	86
5	99	93	88	85	98	92	87	84		90	86	84		89	85	83		87	84	82
6	96	89	84	81	94	88	84	81		87	83	80		85	82	80		84	81	79
7	93	85	81	78	91	85	80	77		84	80	77		83	79	77		82	79	76
8	90	82	78	74	88	82	77	74		81	77	74		80	76	74		79	76	73
9	87	79	75	72	86	79	75	72		78	74	71		77	74	71		77	73	71
10	84	77	72	69	83	76	72	69		76	72	69		75	71	69		74	71	69

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1262934
5°	1233254
10°	1111493
15°	862695
20°	489311
25°	190358
30°	71017
35°	38934
40°	25445
45°	15483
50°	9859
55°	6972
60°	5092
65°	2766
70°	192
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 15483 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1034.1	24.6
10°-20°	2019.1	48.1
20°-30°	823.5	19.6
30°-40°	197.1	4.7
40°-50°	82.1	2.0
50°-60°	34.0	0.8
60°-70°	10.6	0.3
70°-80°	0.2	0.0
80°-90°	0.2	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°	3876.7	92.3
0°-40°	4073.8	97.0
0°-60°	4189.9	99.7
0°-90°	4200.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4200.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	11559	
5°	11244	###
15°	7627	2019
25°	1579	823
35°	292	197
45°	100	82
55°	37	34
65°	11	11
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	11558.9
2.5°	11489.5
5°	11244.3
7.5°	10755.2
10°	10018.3
12.5°	8980.7
15°	7626.7
17.5°	5970.8
20°	4208.3
22.5°	2683.4
25°	1579.0
27.5°	892.6
30°	562.9
32.5°	395.2
35°	291.9
37.5°	225.7
40°	178.4
42.5°	137.4
45°	100.2
47.5°	75.0
50°	58.0
52.5°	46.0
55°	36.6
57.5°	29.6
60°	23.3
62.5°	17.0
65°	10.7
67.5°	3.8
70°	0.6
72.5°	0.6
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.6
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)