

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: P781261

Luminaire Tested: LER4D40BD010-EC4DR3540509030-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781261
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-EC4DR3540509030-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 35° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3782.4 lumens
Efficiency: N/A
Efficacy: 107.5 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

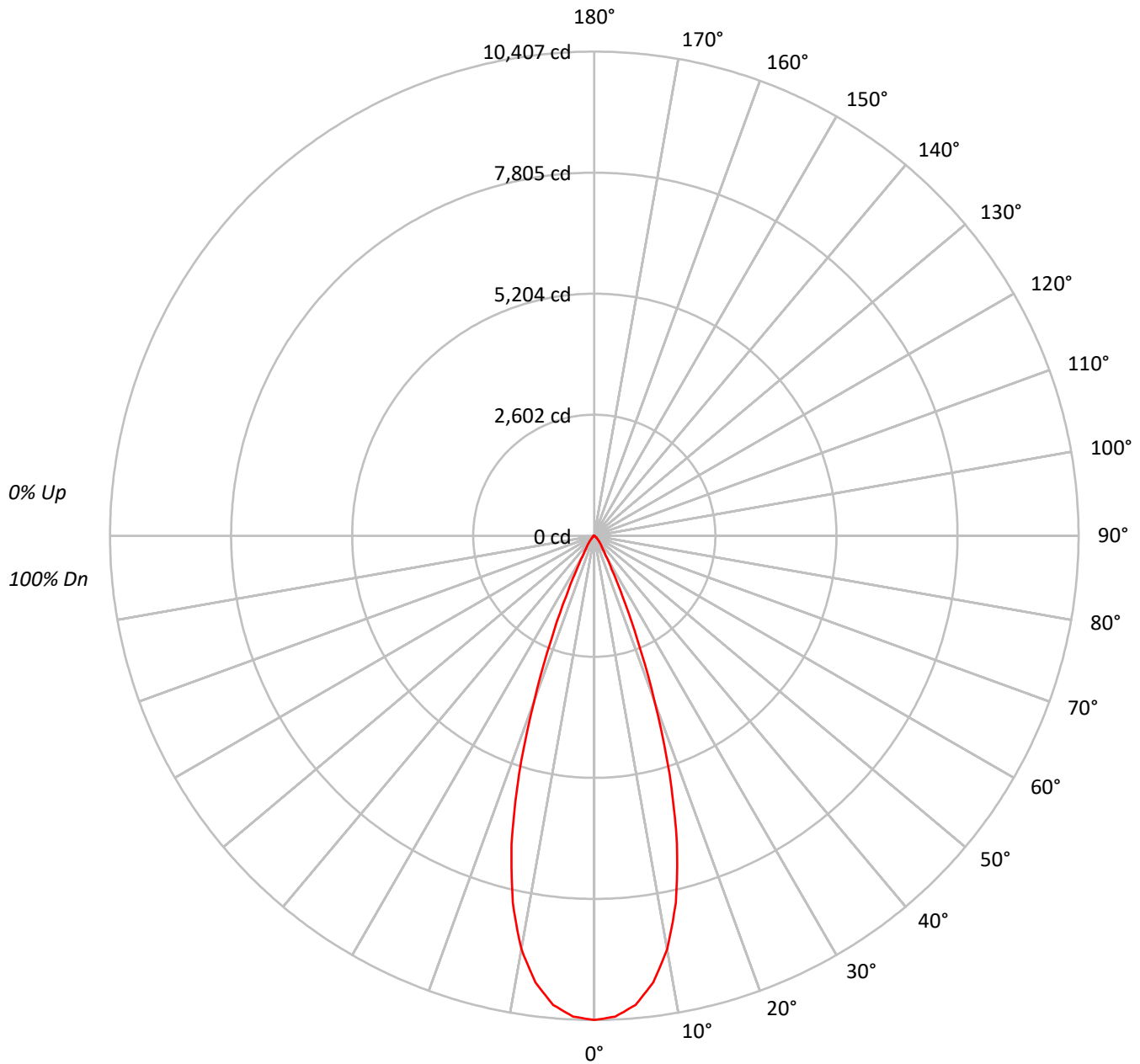


Downlight

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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					10
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°	1137088
5°	1110370
10°	1000747
15°	776738
20°	440558
25°	171394
30°	63940
35°	35053
40°	22906
45°	13938
50°	8873
55°	6267
60°	4589
65°	2482
70°	192
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13938 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	931.1	24.6
10°-20°	1817.9	48.1
20°-30°	741.4	19.6
30°-40°	177.4	4.7
40°-50°	73.9	2.0
50°-60°	30.6	0.8
60°-70°	9.6	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°	3490.4	92.3
0°-40°	3667.9	97.0
0°-60°	3772.4	99.7
0°-90°	3782.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3782.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10407	
5°	10124	931
15°	6867	1818
25°	1422	741
35°	263	177
45°	90	74
55°	33	31
65°	10	10
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	10407.1
2.5°	10344.7
5°	10123.9
7.5°	9683.5
10°	9020.1
12.5°	8085.9
15°	6866.8
17.5°	5375.8
20°	3789.0
22.5°	2416.1
25°	1421.7
27.5°	803.6
30°	506.8
32.5°	355.9
35°	262.8
37.5°	203.2
40°	160.6
42.5°	123.7
45°	90.2
47.5°	67.5
50°	52.2
52.5°	41.4
55°	32.9
57.5°	26.7
60°	21.0
62.5°	15.3
65°	9.6
67.5°	3.4
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)