

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: P781409

Luminaire Tested: LER4D40BD010-EC4DR6540509035-4LBS1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P781409
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-147)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D40BD010-EC4DR6540509035-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3506.4 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.96
Luminous Opening: Circular (Dia: 0.48' 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

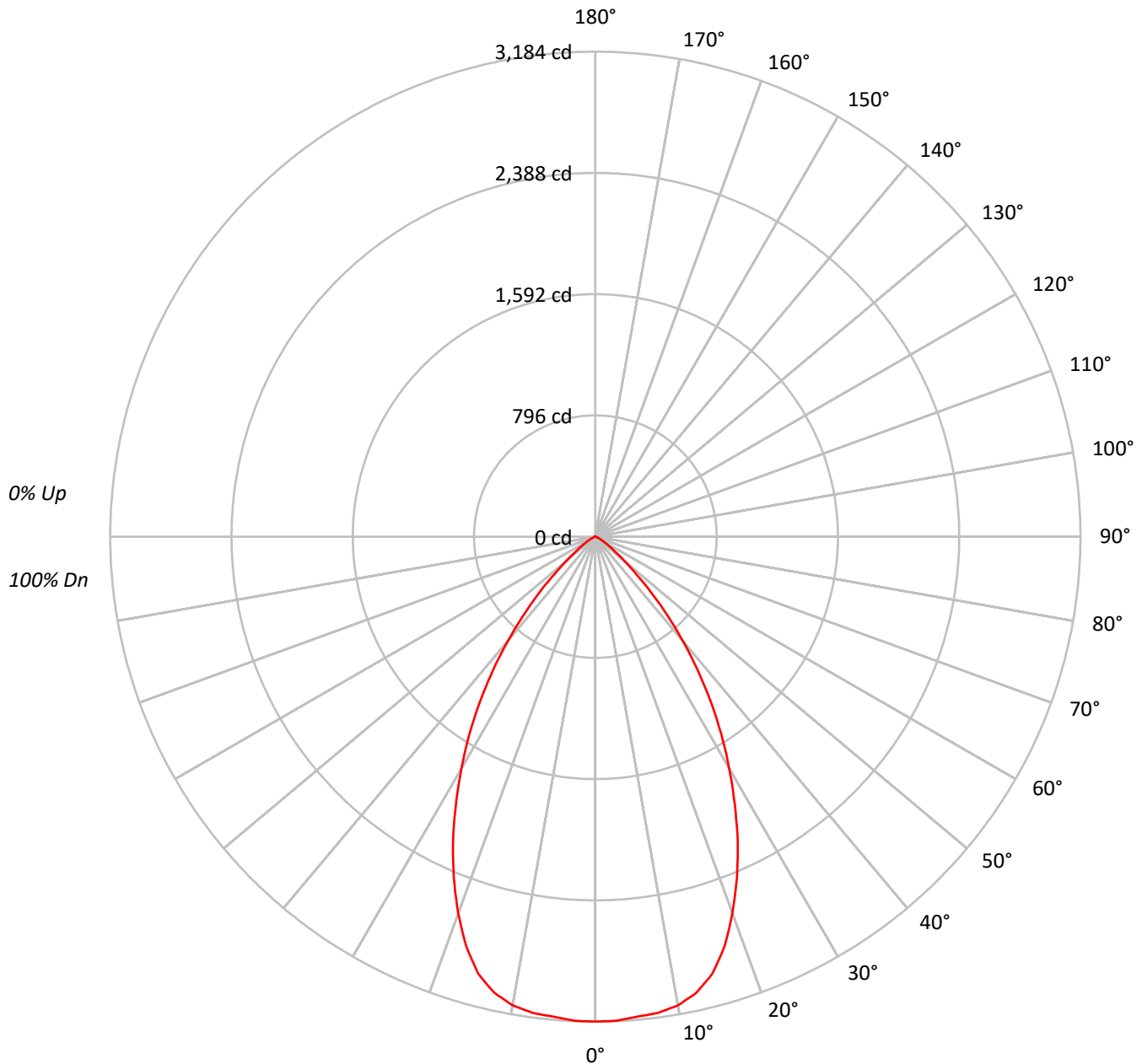


Downlight

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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	113	110	107	105	111	108	105	103	104	102	100		100	99	97		97
2	107	102	97	94	105	100	96	92	97	93	90		94	91	88		91
3	101	94	88	84	99	92	87	83	90	86	82		87	84	81		85
4	95	87	81	76	93	86	80	76	84	79	75		82	77	74		80
5	90	81	74	70	88	80	74	69	78	73	69		76	72	68		75
6	85	75	69	64	83	74	68	64	73	67	63		71	67	63		70
7	80	70	64	59	79	69	63	59	68	63	59		67	62	58		66
8	76	66	59	55	75	65	59	55	64	58	54		63	58	54		62
9	72	61	55	51	71	61	55	51	60	54	51		59	54	50		58
10	68	58	52	47	67	57	51	47	57	51	47		56	51	47		55

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	185940
5°	185472
10°	185316
15°	179603
20°	163504
25°	142487
30°	118511
35°	93899
40°	67770
45°	42818
50°	22315
55°	11863
60°	6226
65°	3427
70°	1434
75°	1580
80°	1110
85°	938

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 42818 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.1	8.6
10°-20°	824.5	23.5
20°-30°	1007.8	28.7
30°-40°	817.7	23.3
40°-50°	407.5	11.6
50°-60°	113.7	3.2
60°-70°	25.8	0.7
70°-80°	6.7	0.2
80°-90°	1.7	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°	2133.4	60.8
0°-40°	2951.0	84.2
0°-60°	3472.2	99.0
0°-90°	3506.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3506.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3184	
5°	3164	301
15°	2970	824
25°	2211	1008
35°	1317	818
45°	518	407
55°	116	114
65°	25	26
75°	7	7
85°	1	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3183.7
2.5°	3181.4
5°	3163.6
7.5°	3153.3
10°	3124.8
12.5°	3066.8
15°	2970.4
17.5°	2819.8
20°	2630.7
22.5°	2426.8
25°	2211.1
27.5°	1980.4
30°	1757.3
32.5°	1536.9
35°	1317.0
37.5°	1097.6
40°	888.9
42.5°	693.4
45°	518.4
47.5°	361.2
50°	245.6
52.5°	169.4
55°	116.5
57.5°	78.6
60°	53.3
62.5°	37.0
65°	24.8
67.5°	12.6
70°	8.4
72.5°	8.0
75°	7.0
77.5°	4.7
80°	3.3
82.5°	2.3
85°	1.4
87.5°	0.9
90°	0.0



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— 0°-180°







(END OF REPORT)