

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: P781428

Luminaire Tested: LER4D40BD010-EC4DR7040509030-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781428
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-76)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D40BD010-EC4DR7040509030-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3720.7 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.04
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 35.2
Input Voltage (V): NR
Input Current (A_{in}): 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

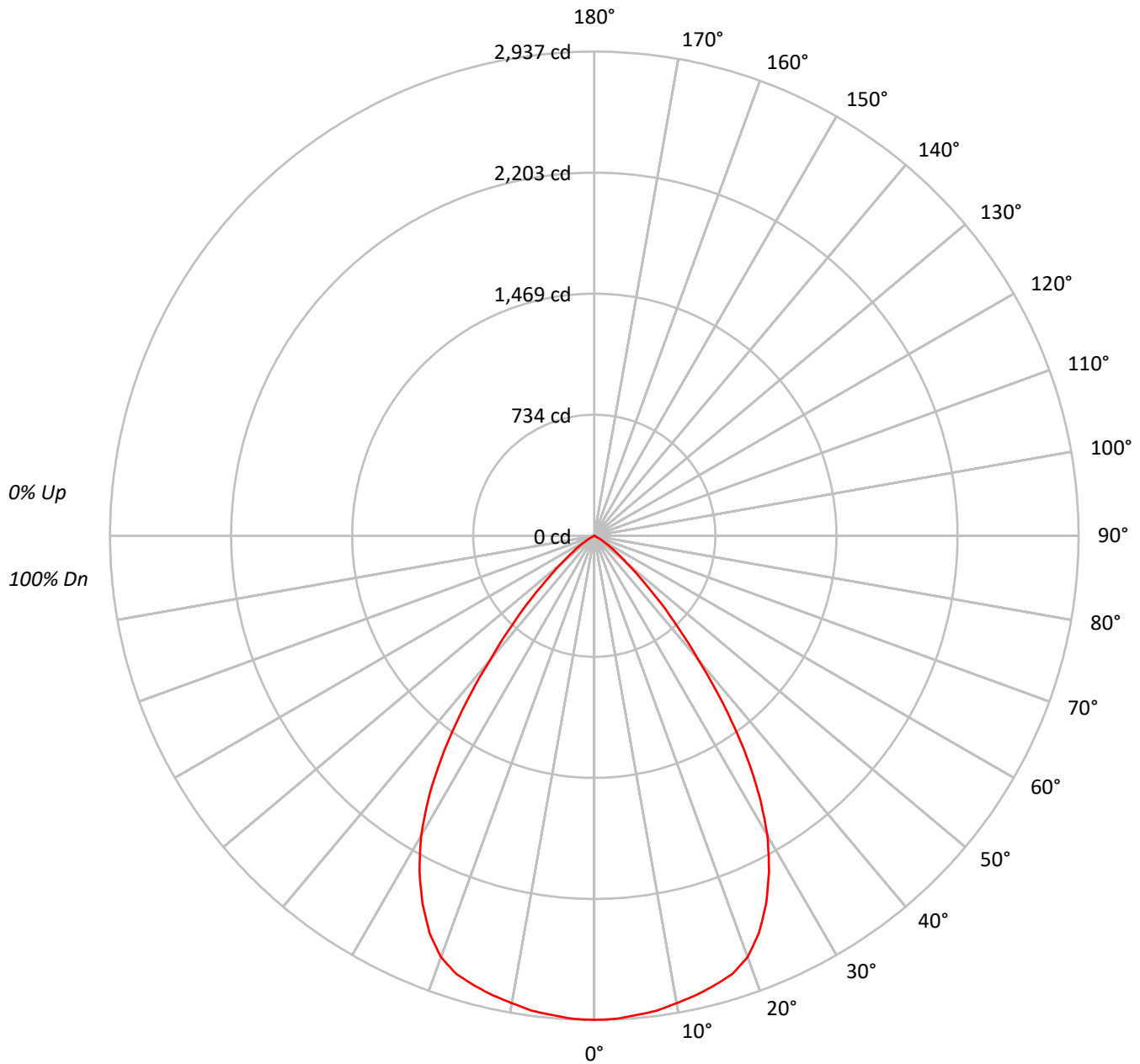


Downlight

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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	106	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	85	82		87	84	81		85
4	95	87	81	76	93	86	80	76	83	78	75		81	77	74		79
5	89	80	74	69	88	79	73	69	78	72	68		76	71	68		74
6	84	75	68	63	83	74	68	63	72	67	63		71	66	62		69
7	80	69	63	58	78	69	62	58	67	62	58		66	61	57		65
8	75	65	58	54	74	64	58	54	63	57	53		62	57	53		61
9	71	61	54	50	70	60	54	50	59	53	50		58	53	49		57
10	67	57	50	46	66	56	50	46	55	50	46		55	50	46		54

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	320866
5°	320063
10°	319370
15°	319279
20°	316158
25°	296989
30°	264767
35°	211105
40°	140177
45°	83795
50°	43447
55°	22840
60°	8085
65°	129
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 83795 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.5	7.5
10°-20°	795.9	21.4
20°-30°	1122.8	30.2
30°-40°	969.3	26.1
40°-50°	434.1	11.7
50°-60°	113.6	3.1
60°-70°	7.4	0.2
70°-80°	0.0	0.0
80°-90°	0.0	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°	2196.3	59.0
0°-40°	3165.6	85.1
0°-60°	3713.3	99.8
0°-90°	3720.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3720.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2937	
5°	2918	278
15°	2823	796
25°	2464	1123
35°	1583	969
45°	542	434
55°	120	114
65°	0	7
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2936.7
2.5°	2933.5
5°	2918.2
7.5°	2905.5
10°	2878.6
12.5°	2854.3
15°	2822.6
17.5°	2786.2
20°	2719.1
22.5°	2608.7
25°	2463.5
27.5°	2295.1
30°	2098.6
32.5°	1858.3
35°	1582.7
37.5°	1278.5
40°	982.8
42.5°	746.7
45°	542.3
47.5°	373.9
50°	255.6
52.5°	176.4
55°	119.9
57.5°	72.3
60°	37.0
62.5°	11.6
65°	0.5
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)