

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: P781412

Luminaire Tested: LER4D40BD010-EC4DR6540509040-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P781412
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-EC4DR6540509040-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3407.8 lumens
Efficiency: N/A
Efficacy: 96.8 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

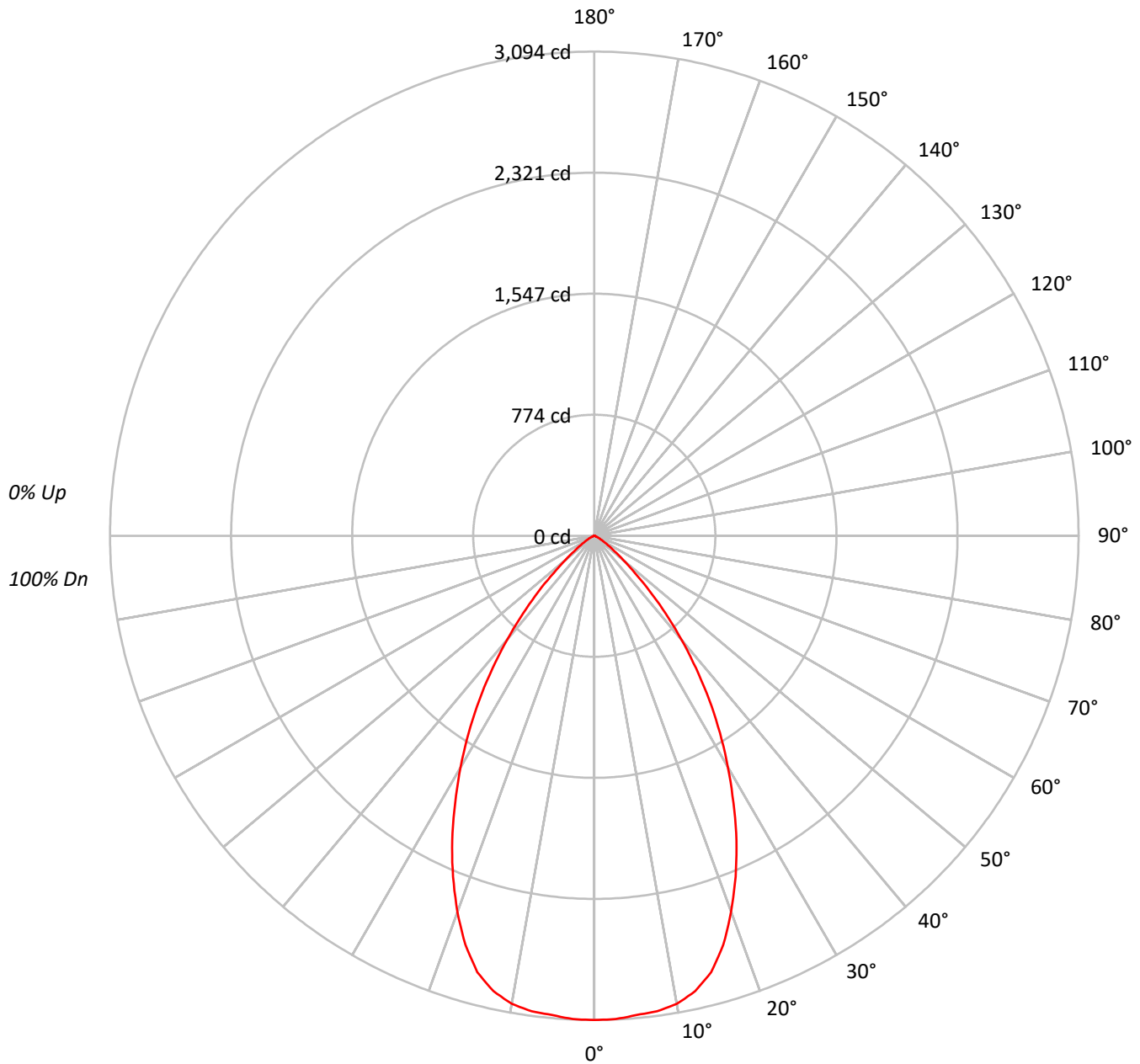


Downlight

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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					0
RW	70	50	30	10	70	50	30	10	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	100		
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	93		
2	107	102	97	94	105	100	96	92	97	93	90	94	91	88	91	89	87	85		
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	80	78		
4	95	87	81	76	93	86	80	76	84	79	75	82	77	74	80	76	73	72		
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66		
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61		
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56		
8	76	66	59	55	75	65	59	55	64	58	54	63	58	54	62	57	54	52		
9	72	61	55	51	71	61	55	51	60	54	51	59	54	50	58	54	50	49		
10	68	58	52	47	67	57	51	47	57	51	47	56	51	47	55	50	47	46		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	180713
5°	180254
10°	180103
15°	174548
20°	158904
25°	138478
30°	115172
35°	91261
40°	65864
45°	41612
50°	21688
55°	11526
60°	6051
65°	3331
70°	1400
75°	1534
80°	1076
85°	938

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 41612 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.6	8.6
10°-20°	801.3	23.5
20°-30°	979.4	28.7
30°-40°	794.7	23.3
40°-50°	396.0	11.6
50°-60°	110.4	3.2
60°-70°	25.1	0.7
70°-80°	6.5	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°	2073.3	60.8
0°-40°	2868.0	84.2
0°-60°	3374.5	99.0
0°-90°	3407.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3407.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3094	
5°	3075	293
15°	2887	801
25°	2149	979
35°	1280	795
45°	504	396
55°	113	110
65°	24	25
75°	7	7
85°	1	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3094.2
2.5°	3091.9
5°	3074.6
7.5°	3064.6
10°	3036.9
12.5°	2980.5
15°	2886.8
17.5°	2740.4
20°	2556.7
22.5°	2358.5
25°	2148.9
27.5°	1924.7
30°	1707.8
32.5°	1493.7
35°	1280.0
37.5°	1066.7
40°	863.9
42.5°	673.9
45°	503.8
47.5°	351.0
50°	238.7
52.5°	164.6
55°	113.2
57.5°	76.4
60°	51.8
62.5°	35.9
65°	24.1
67.5°	12.3
70°	8.2
72.5°	7.7
75°	6.8
77.5°	4.5
80°	3.2
82.5°	2.3
85°	1.4
87.5°	0.9
90°	0.0



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— 0°-180°







(END OF REPORT)