

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: P781436

Luminaire Tested: LER4D40BD010-EC4DR7040509040-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781436
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-EC4DR7040509040-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3935.7 lumens
Efficiency: N/A
Efficacy: 111.8 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 (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

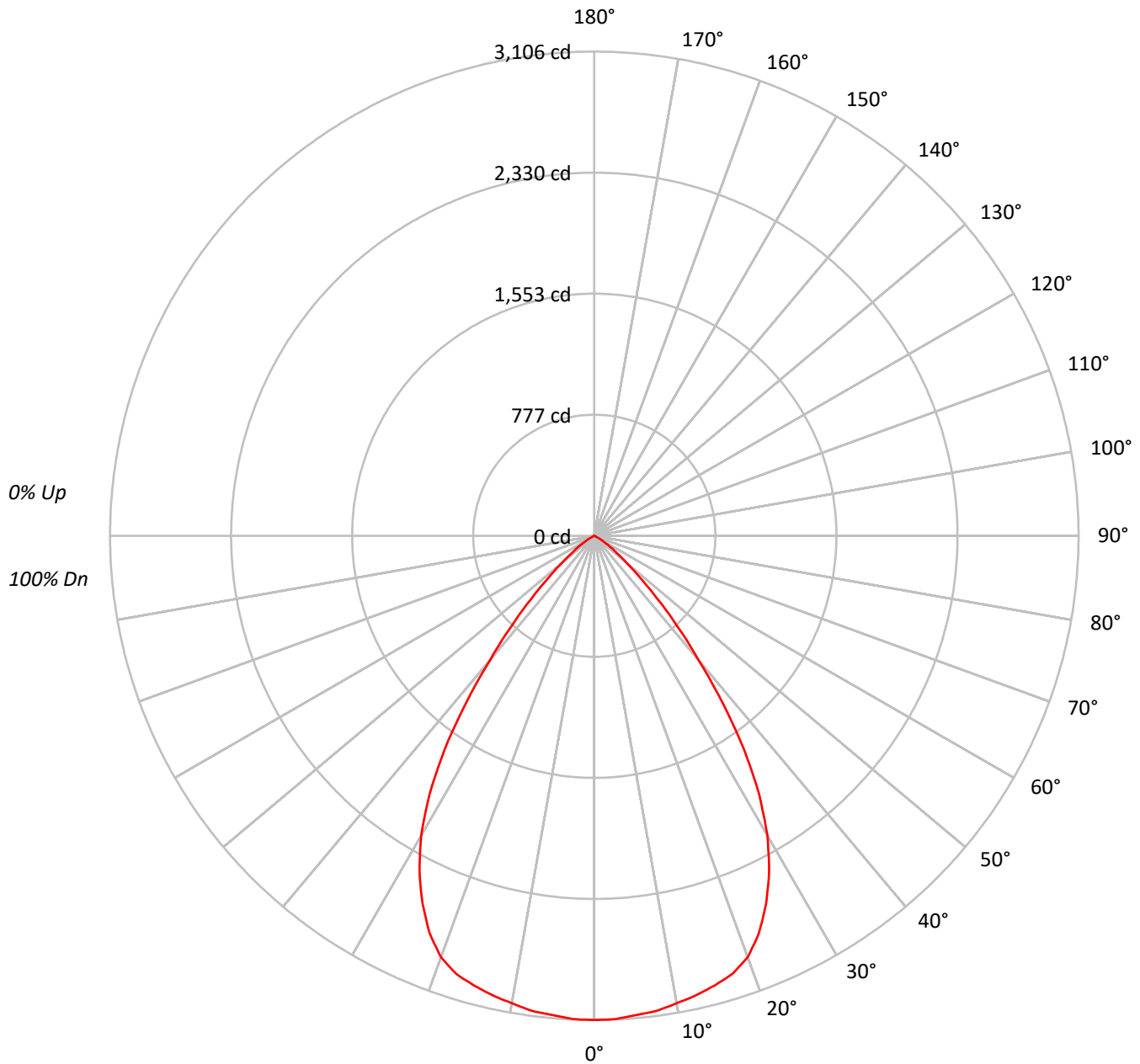


Downlight

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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				0			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100				
1	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	97	95	94	93	93				
2	107	102	97	94	105	100	96	92	97	93	90	94	91	88	91	89	87	85	85	85				
3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79	78	78	78				
4	95	87	81	76	93	86	80	76	83	78	75	81	77	74	79	76	73	71	71	71				
5	89	80	74	69	88	79	73	69	78	72	68	76	71	68	74	70	67	65	65	65				
6	84	75	68	63	83	74	68	63	72	67	63	71	66	62	69	65	62	60	60	60				
7	80	69	63	58	78	69	62	58	67	62	58	66	61	57	65	61	57	56	56	56				
8	75	65	58	54	74	64	58	54	63	57	53	62	57	53	61	56	53	51	51	51				
9	71	61	54	50	70	60	54	50	59	53	50	58	53	49	57	53	49	48	48	48				
10	67	57	50	46	66	56	50	46	55	50	46	55	50	46	54	49	46	44	44	44				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	339397
5°	338554
10°	337820
15°	337728
20°	334424
25°	314145
30°	280070
35°	223296
40°	148264
45°	88647
50°	45962
55°	24154
60°	8544
65°	155
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 88647 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.6	7.5
10°-20°	841.9	21.4
20°-30°	1187.7	30.2
30°-40°	1025.3	26.1
40°-50°	459.2	11.7
50°-60°	120.2	3.1
60°-70°	7.8	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°	2323.2	59.0
0°-40°	3348.5	85.1
0°-60°	3927.8	99.8
0°-90°	3935.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3935.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3106	
5°	3087	294
15°	2986	842
25°	2606	1188
35°	1674	1025
45°	574	459
55°	127	120
65°	1	8
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3106.3
2.5°	3103.0
5°	3086.8
7.5°	3073.4
10°	3044.9
12.5°	3019.2
15°	2985.7
17.5°	2947.1
20°	2876.2
22.5°	2759.5
25°	2605.8
27.5°	2427.7
30°	2219.9
32.5°	1965.7
35°	1674.1
37.5°	1352.4
40°	1039.5
42.5°	789.9
45°	573.7
47.5°	395.5
50°	270.4
52.5°	186.6
55°	126.8
57.5°	76.5
60°	39.1
62.5°	12.3
65°	0.6
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)