

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: P781340

Luminaire Tested: LER4D40BD010-EC4DR5040509040-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781340
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-44)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D40BD010-EC4DR5040509040-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 50° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4111.6 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Spacing Criteria (0/90/45): 0.8 / 0.8 / 0.73
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

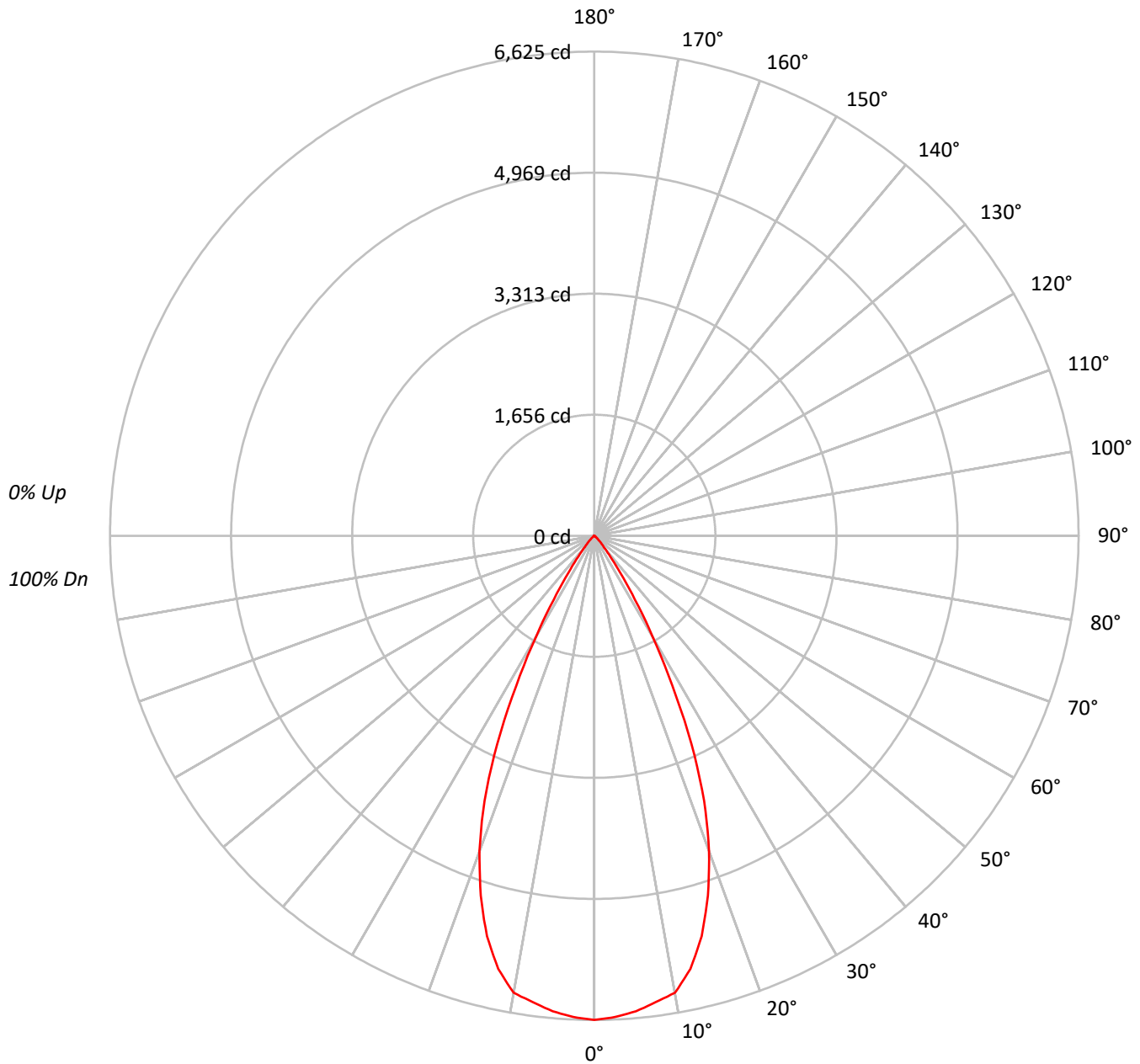


Downlight

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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						
1	114	112	109	107	112	110	108	106	106	104	102	102	101	99	98	97	97	95						
2	109	105	101	98	107	103	100	97	100	98	95	97	95	93	95	93	91	90						
3	105	99	95	91	103	98	94	90	95	92	89	93	90	88	91	88	86	85						
4	100	94	89	85	99	93	88	85	90	87	84	89	85	83	87	84	82	80						
5	96	89	84	80	95	88	83	79	86	82	79	85	81	78	83	80	77	76						
6	92	84	79	75	91	83	79	75	82	78	74	81	77	74	79	76	74	72						
7	88	80	75	71	87	79	74	71	78	74	71	77	73	70	76	73	70	69						
8	85	76	71	67	84	76	71	67	75	70	67	74	70	67	73	69	66	65						
9	81	73	68	64	80	72	67	64	71	67	64	71	67	64	70	66	63	62						
10	78	70	64	61	77	69	64	61	68	64	61	68	64	61	67	63	60	59						

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	723831
5°	716242
10°	704442
15°	641453
20°	533762
25°	378895
30°	200549
35°	81724
40°	30352
45°	13891
50°	5694
55°	2972
60°	1464
65°	440
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13891 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	617.3	15.0
10°-20°	1559.9	37.9
20°-30°	1401.2	34.1
30°-40°	438.7	10.7
40°-50°	76.8	1.9
50°-60°	15.3	0.4
60°-70°	2.3	0.1
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°	3578.4	87.0
0°-40°	4017.2	97.7
0°-60°	4109.3	99.9
0°-90°	4111.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4111.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6625	
5°	6530	617
15°	5671	1560
25°	3143	1401
35°	613	439
45°	90	77
55°	16	15
65°	2	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	6624.8
2.5°	6591.8
5°	6530.4
7.5°	6436.6
10°	6349.4
12.5°	6070.2
15°	5670.8
17.5°	5163.7
20°	4590.6
22.5°	3927.6
25°	3142.9
27.5°	2310.7
30°	1589.6
32.5°	1035.0
35°	612.7
37.5°	351.9
40°	212.8
42.5°	138.5
45°	89.9
47.5°	54.7
50°	33.5
52.5°	22.9
55°	15.6
57.5°	10.6
60°	6.7
62.5°	3.9
65°	1.7
67.5°	0.6
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)