

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: P748204

Luminaire Tested: LD4D40BD010-EU4DR7040509040-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P748204
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-73)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D40BD010-EU4DR7040509040-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF 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: 2337.0 lumens
Efficiency: N/A
Efficacy: 66.4 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.82
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

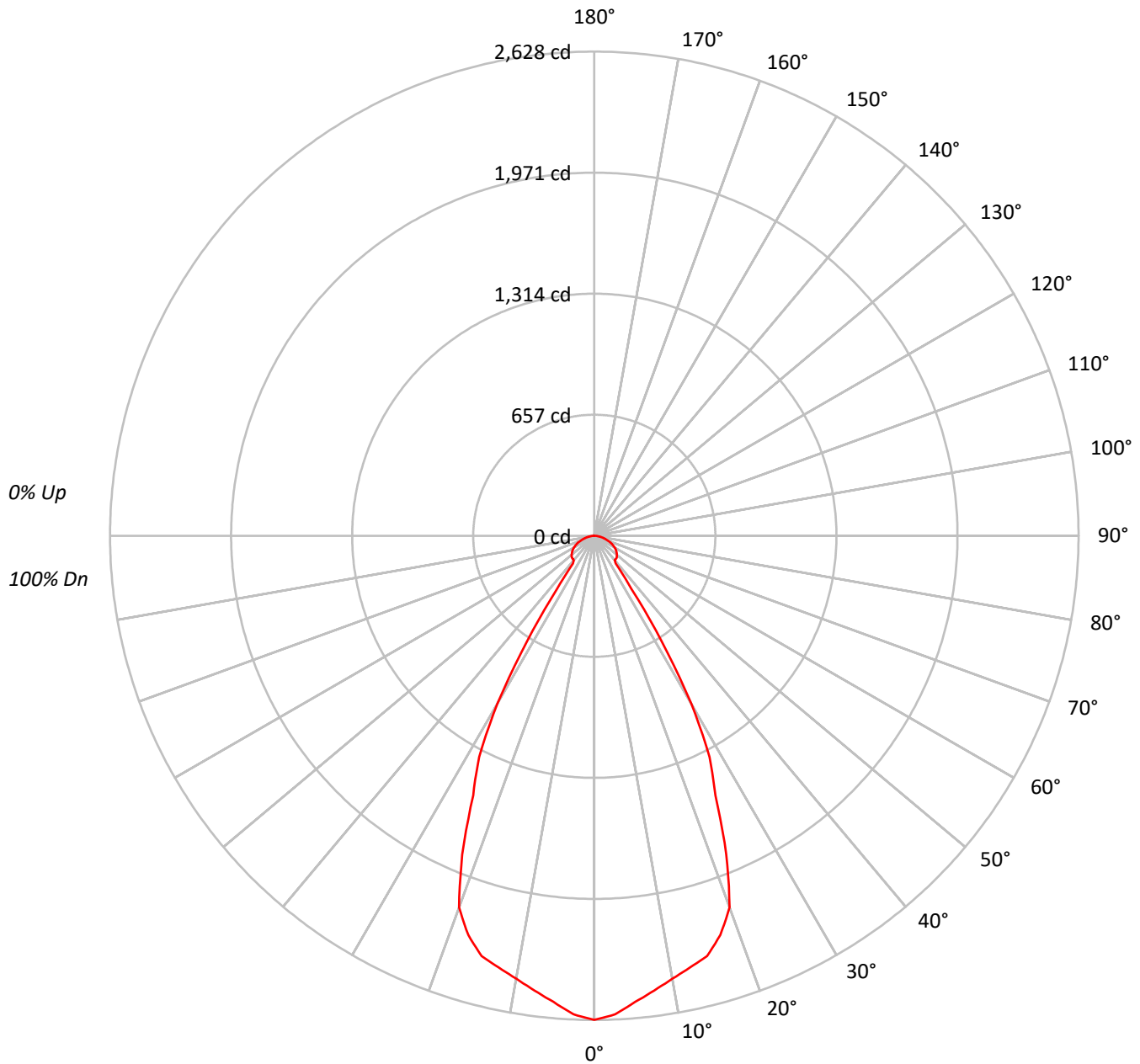


Downlight

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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
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	112	109	106	103	110	107	104	102	103	101	99		99	97	96		95
2	106	100	95	91	103	98	94	90	95	91	88		92	89	86		89
3	100	92	87	82	98	91	86	81	88	84	80		86	82	79		83
4	94	86	80	75	92	85	79	74	82	77	73		80	76	73		78
5	89	80	74	69	87	79	73	69	77	72	68		75	71	67		74
6	85	75	68	64	83	74	68	64	73	67	63		71	66	63		70
7	80	70	64	59	79	70	64	59	68	63	59		67	62	59		66
8	77	66	60	56	75	66	60	56	65	59	55		64	59	55		63
9	73	63	57	52	72	62	56	52	61	56	52		60	55	52		60
10	70	59	53	49	69	59	53	49	58	53	49		57	52	49		57

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	287083
5°	278550
10°	270787
15°	267234
20°	249545
25°	187464
30°	132522
35°	46937
40°	24689
45°	26284
50°	27231
55°	27735
60°	27905
65°	27327
70°	25780
75°	23894
80°	21204
85°	17175

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 27920 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.5	10.3
10°-20°	657.1	28.1
20°-30°	723.7	31.0
30°-40°	276.5	11.8
40°-50°	130.6	5.6
50°-60°	129.8	5.6
60°-70°	103.9	4.4
70°-80°	59.7	2.6
80°-90°	16.2	0.7
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°	1620.3	69.3
0°-40°	1896.8	81.2
0°-60°	2157.1	92.3
0°-90°	2337.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2337.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2628	
5°	2540	240
15°	2362	657
25°	1555	724
35°	352	276
45°	170	131
55°	146	130
65°	106	104
75°	57	60
85°	14	16
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2627.5
2.5°	2600.0
5°	2539.7
7.5°	2489.4
10°	2440.7
12.5°	2399.5
15°	2362.5
17.5°	2273.1
20°	2146.2
22.5°	1872.4
25°	1555.0
27.5°	1353.7
30°	1050.4
32.5°	678.5
35°	351.9
37.5°	190.1
40°	173.1
42.5°	171.8
45°	170.1
47.5°	166.4
50°	160.2
52.5°	153.1
55°	145.6
57.5°	137.3
60°	127.7
62.5°	116.9
65°	105.7
67.5°	93.2
70°	80.7
72.5°	68.2
75°	56.6
77.5°	44.5
80°	33.7
82.5°	23.7
85°	13.7
87.5°	5.4
90°	0.0



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— 0°-180°







(END OF REPORT)