

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: P752286

Luminaire Tested: LD4D70BD010-EU4DR3570959024-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752286
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-20)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D70BD010-EU4DR3570959024-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 35° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4805.3 lumens
Efficiency: N/A
Efficacy: 72.2 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.6 / 0.54
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
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

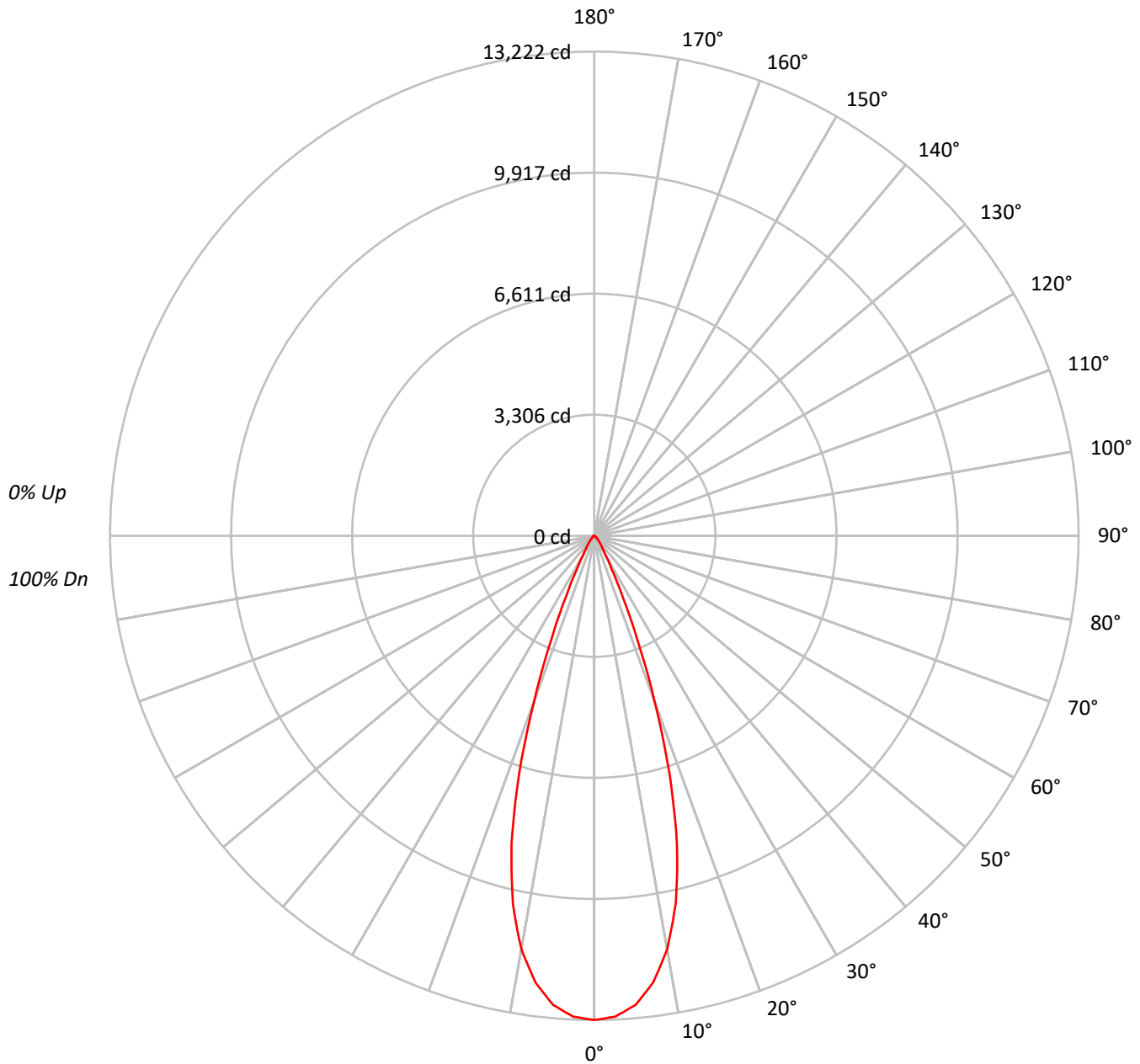


Downlight

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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	115	112	110	108	112	110	108	107		106	105	103			103	101	100			99
2	110	106	103	101	108	105	102	99		102	99	97			99	97	95			96
3	106	101	97	94	105	100	96	93		97	95	92			95	93	91			93
4	103	97	92	89	101	96	92	89		94	90	88			92	89	87			90
5	99	93	88	85	98	92	87	84		90	86	84			89	85	83			87
6	96	89	84	81	94	88	84	81		87	83	80			85	82	80			84
7	93	85	81	78	91	85	80	77		84	80	77			83	79	77			82
8	90	82	78	74	88	82	77	74		81	77	74			80	76	74			79
9	87	79	75	72	86	79	75	72		78	74	71			77	74	71			77
10	84	77	72	69	83	76	72	69		76	72	69			75	71	69			74

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1444635
5°	1410691
10°	1271400
15°	986816
20°	559703
25°	217748
30°	81237
35°	44523
40°	29111
45°	17708
50°	11270
55°	7962
60°	5835
65°	3180
70°	224
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 17708 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1182.9	24.6
10°-20°	2309.6	48.1
20°-30°	941.9	19.6
30°-40°	225.4	4.7
40°-50°	93.9	2.0
50°-60°	38.9	0.8
60°-70°	12.2	0.3
70°-80°	0.3	0.0
80°-90°	0.2	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°	4434.5	92.3
0°-40°	4659.9	97.0
0°-60°	4792.7	99.7
0°-90°	4805.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4805.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	13222	
5°	12862	###
15°	8724	2310
25°	1806	942
35°	334	225
45°	115	94
55°	42	39
65°	12	12
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	13221.9
2.5°	13142.6
5°	12862.1
7.5°	12302.5
10°	11459.6
12.5°	10272.8
15°	8724.0
17.5°	6829.8
20°	4813.7
22.5°	3069.5
25°	1806.2
27.5°	1021.0
30°	643.9
32.5°	452.1
35°	333.8
37.5°	258.1
40°	204.1
42.5°	157.2
45°	114.6
47.5°	85.8
50°	66.3
52.5°	52.6
55°	41.8
57.5°	33.9
60°	26.7
62.5°	19.5
65°	12.3
67.5°	4.3
70°	0.7
72.5°	0.7
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.7
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)