

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: P784588

Luminaire Tested: LER4DD35BD010-EC4DR7020359024-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P784588
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: LER4DD35BD010-EC4DR7020359024-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1608.1 lumens
Efficiency: N/A
Efficacy: 52.2 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): 30.8
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

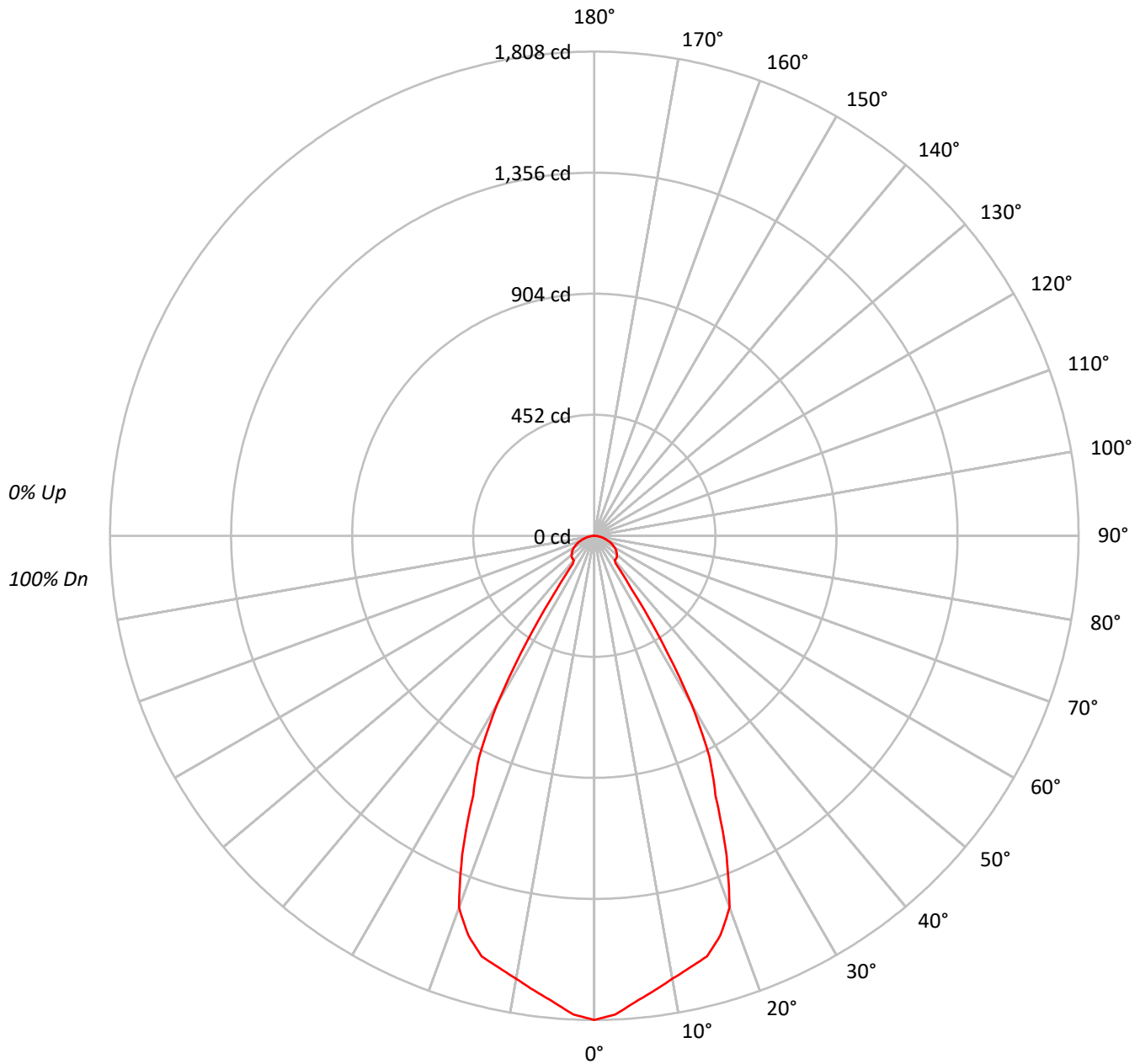


Downlight

TEST NUMBER: P784588

CATALOG NUMBER: LER4DD35BD010-EC4DR7020359024-4LBDP1B

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	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91						
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83						
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76						
4	94	86	80	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70						
5	89	80	74	69	88	79	73	69	77	72	68	75	71	67	74	70	67	65						
6	85	75	68	64	83	74	68	64	73	67	63	71	66	63	70	66	62	61						
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57						
8	77	66	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53						
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50						
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48						

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	197554
5°	191684
10°	186345
15°	183891
20°	171723
25°	129007
30°	91191
35°	32305
40°	16987
45°	18094
50°	18732
55°	19087
60°	19208
65°	18795
70°	17730
75°	16422
80°	14598
85°	11784

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 19217 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.8	10.3
10°-20°	452.2	28.1
20°-30°	498.0	31.0
30°-40°	190.3	11.8
40°-50°	89.8	5.6
50°-60°	89.3	5.6
60°-70°	71.5	4.4
70°-80°	41.1	2.6
80°-90°	11.2	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°	1115.0	69.3
0°-40°	1305.3	81.2
0°-60°	1484.4	92.3
0°-90°	1608.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1608.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1808	
5°	1748	165
15°	1626	452
25°	1070	498
35°	242	190
45°	117	90
55°	100	89
65°	73	71
75°	39	41
85°	9	11
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1808.1
2.5°	1789.2
5°	1747.7
7.5°	1713.0
10°	1679.6
12.5°	1651.2
15°	1625.7
17.5°	1564.2
20°	1476.9
22.5°	1288.5
25°	1070.1
27.5°	931.5
30°	722.8
32.5°	466.9
35°	242.2
37.5°	130.8
40°	119.1
42.5°	118.2
45°	117.1
47.5°	114.5
50°	110.2
52.5°	105.3
55°	100.2
57.5°	94.5
60°	87.9
62.5°	80.4
65°	72.7
67.5°	64.1
70°	55.5
72.5°	46.9
75°	38.9
77.5°	30.6
80°	23.2
82.5°	16.3
85°	9.4
87.5°	3.7
90°	0.0



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— 0°-180°







(END OF REPORT)