

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: P781163

Luminaire Tested: LER4D35BD010-EC4DR6520359027-4LBS1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P781163
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-147)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D35BD010-EC4DR6520359027-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2718.6 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.96
Luminous Opening: Circular (Dia: 0.48' x H: 0')
CIE Type: Direct

Input Watts (W): 30.8
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

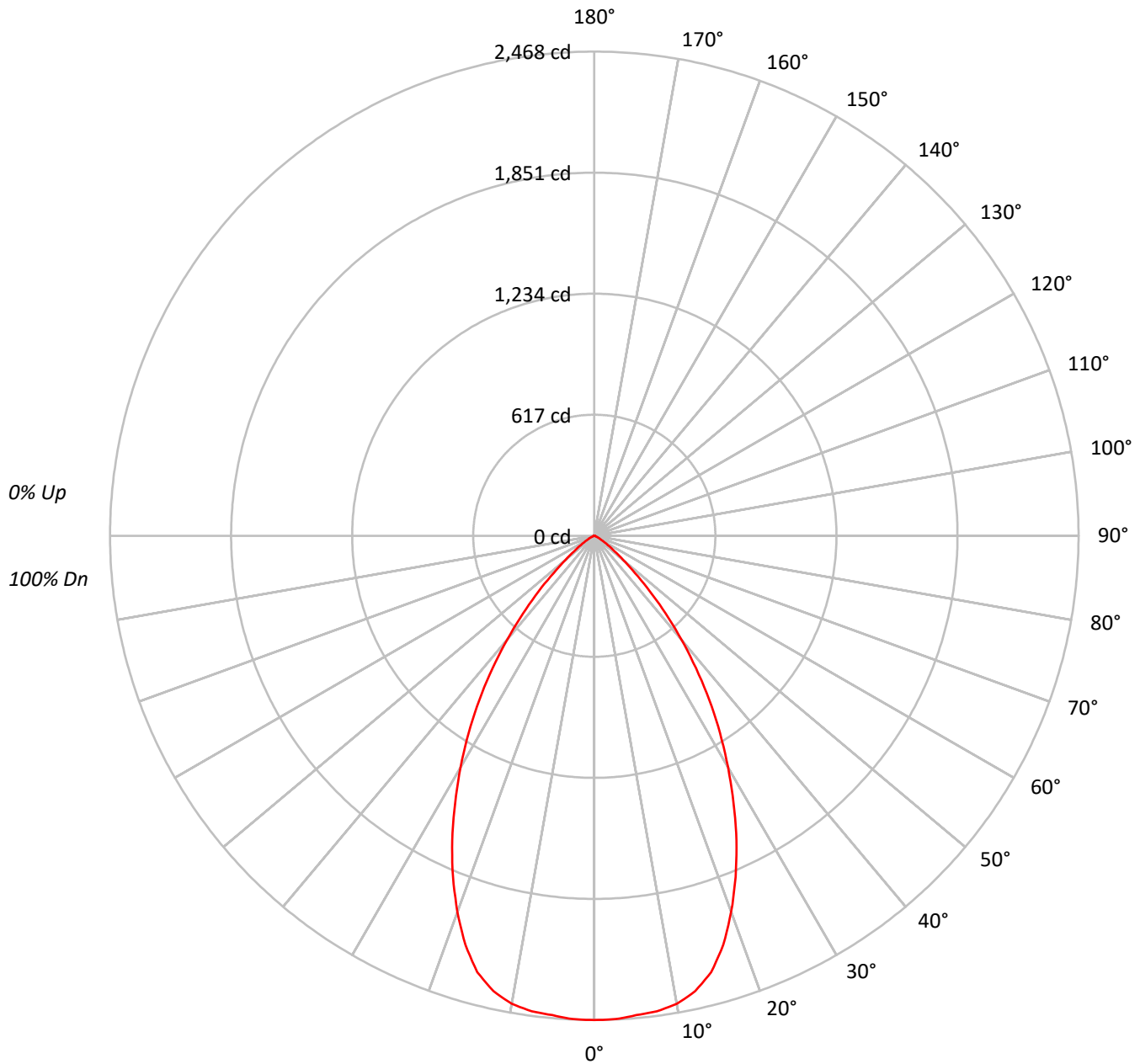


Downlight

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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	113	110	107	105	111	108	105	103	104	102	100		100	99	97		97
2	107	102	97	94	105	100	96	92	97	93	90		94	91	88		91
3	101	94	88	84	99	92	87	83	90	86	82		87	84	81		85
4	95	87	81	76	93	86	80	76	84	79	75		82	77	74		80
5	90	81	74	70	88	80	74	69	78	73	69		76	72	68		75
6	85	75	69	64	83	74	68	64	73	67	63		71	67	63		70
7	80	70	64	59	79	69	63	59	68	63	59		67	62	58		66
8	76	66	59	55	75	65	59	55	64	58	54		63	58	54		62
9	72	61	55	51	71	61	55	51	60	54	51		59	54	50		58
10	68	58	52	47	67	57	51	47	57	51	47		56	51	47		55

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	144170
5°	143806
10°	143684
15°	139255
20°	126772
25°	110472
30°	91886
35°	72802
40°	52545
45°	33195
50°	17300
55°	9195
60°	4836
65°	2653
70°	1110
75°	1219
80°	841
85°	737

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 33195 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.4	8.6
10°-20°	639.3	23.5
20°-30°	781.4	28.7
30°-40°	634.0	23.3
40°-50°	315.9	11.6
50°-60°	88.1	3.2
60°-70°	20.0	0.7
70°-80°	5.2	0.2
80°-90°	1.3	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°	1654.1	60.8
0°-40°	2288.1	84.2
0°-60°	2692.1	99.0
0°-90°	2718.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2718.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2468	
5°	2453	233
15°	2303	639
25°	1714	781
35°	1021	634
45°	402	316
55°	90	88
65°	19	20
75°	5	5
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2468.5
2.5°	2466.7
5°	2452.9
7.5°	2444.9
10°	2422.8
12.5°	2377.8
15°	2303.1
17.5°	2186.3
20°	2039.7
22.5°	1881.6
25°	1714.3
27.5°	1535.5
30°	1362.5
32.5°	1191.6
35°	1021.1
37.5°	851.0
40°	689.2
42.5°	537.6
45°	401.9
47.5°	280.0
50°	190.4
52.5°	131.3
55°	90.3
57.5°	60.9
60°	41.4
62.5°	28.7
65°	19.2
67.5°	9.8
70°	6.5
72.5°	6.2
75°	5.4
77.5°	3.6
80°	2.5
82.5°	1.8
85°	1.1
87.5°	0.7
90°	0.0



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— 0°-180°







(END OF REPORT)