

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: P781172

Luminaire Tested: LER4D35BD010-EC4DR6520359040-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P781172
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-EC4DR6520359040-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2894.9 lumens
Efficiency: N/A
Efficacy: 94.0 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

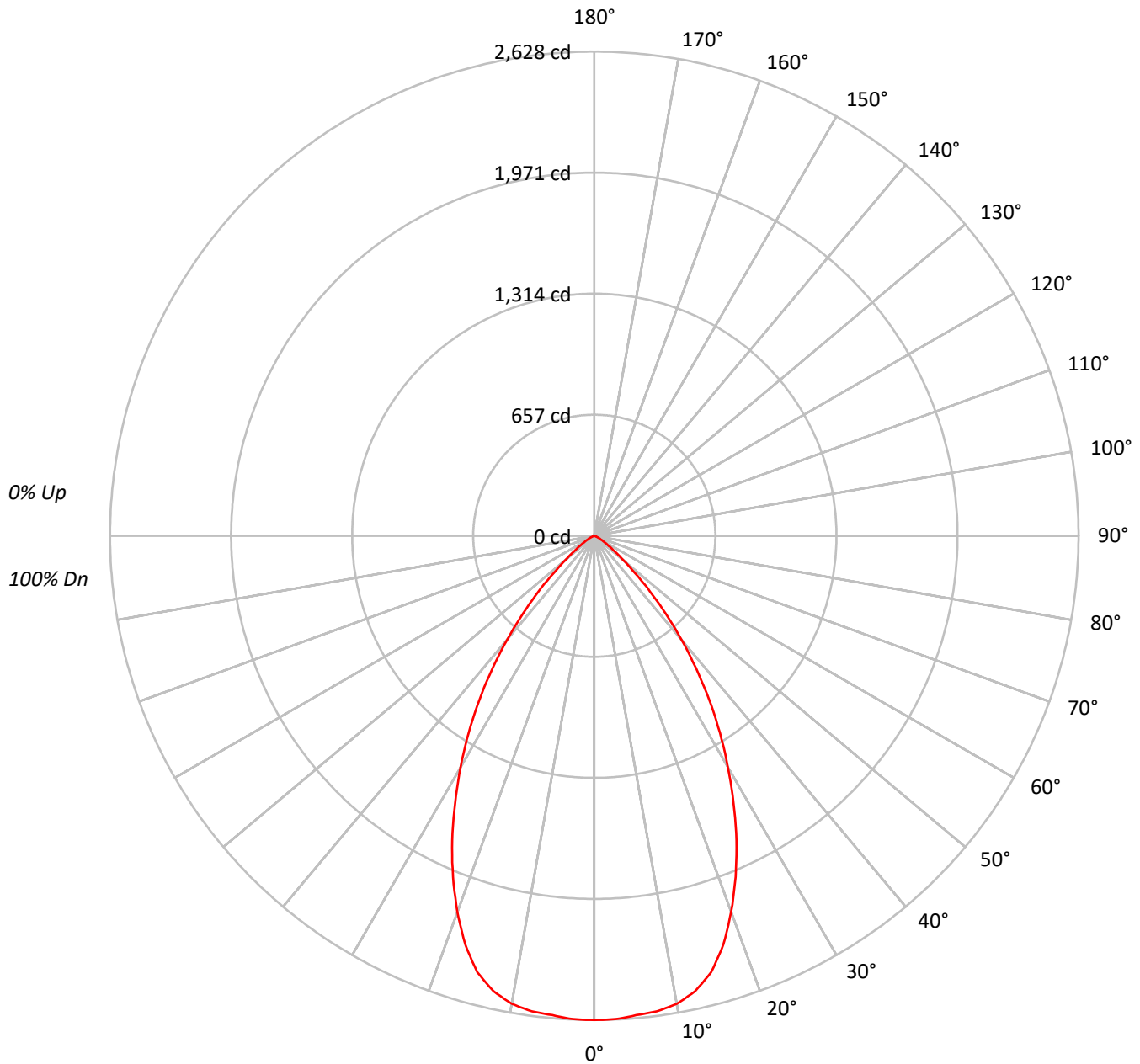


Downlight

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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°	153509
5°	153122
10°	152989
15°	148276
20°	134988
25°	117632
30°	97834
35°	77522
40°	55953
45°	35351
50°	18426
55°	9795
60°	5140
65°	2833
70°	1195
75°	1309
80°	908
85°	804

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 35351 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.6	8.6
10°-20°	680.7	23.5
20°-30°	832.0	28.7
30°-40°	675.1	23.3
40°-50°	336.4	11.6
50°-60°	93.8	3.2
60°-70°	21.3	0.7
70°-80°	5.6	0.2
80°-90°	1.4	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°	1761.2	60.8
0°-40°	2436.3	84.2
0°-60°	2866.5	99.0
0°-90°	2894.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2894.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2628	
5°	2612	249
15°	2452	681
25°	1825	832
35°	1087	675
45°	428	336
55°	96	94
65°	20	21
75°	6	6
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2628.4
2.5°	2626.5
5°	2611.8
7.5°	2603.3
10°	2579.7
12.5°	2531.8
15°	2452.3
17.5°	2327.9
20°	2171.9
22.5°	2003.5
25°	1825.4
27.5°	1635.0
30°	1450.7
32.5°	1268.8
35°	1087.3
37.5°	906.1
40°	733.9
42.5°	572.4
45°	428.0
47.5°	298.2
50°	202.8
52.5°	139.8
55°	96.2
57.5°	64.9
60°	44.0
62.5°	30.5
65°	20.5
67.5°	10.4
70°	7.0
72.5°	6.6
75°	5.8
77.5°	3.9
80°	2.7
82.5°	1.9
85°	1.2
87.5°	0.8
90°	0.0



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— 0°-180°







(END OF REPORT)