

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: P784821

Luminaire Tested: LER4DD40BD010-EC4DR6540509040-4LBDP1H

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P784821
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-59)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4DD40BD010-EC4DR6540509040-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3486.9 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.92
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

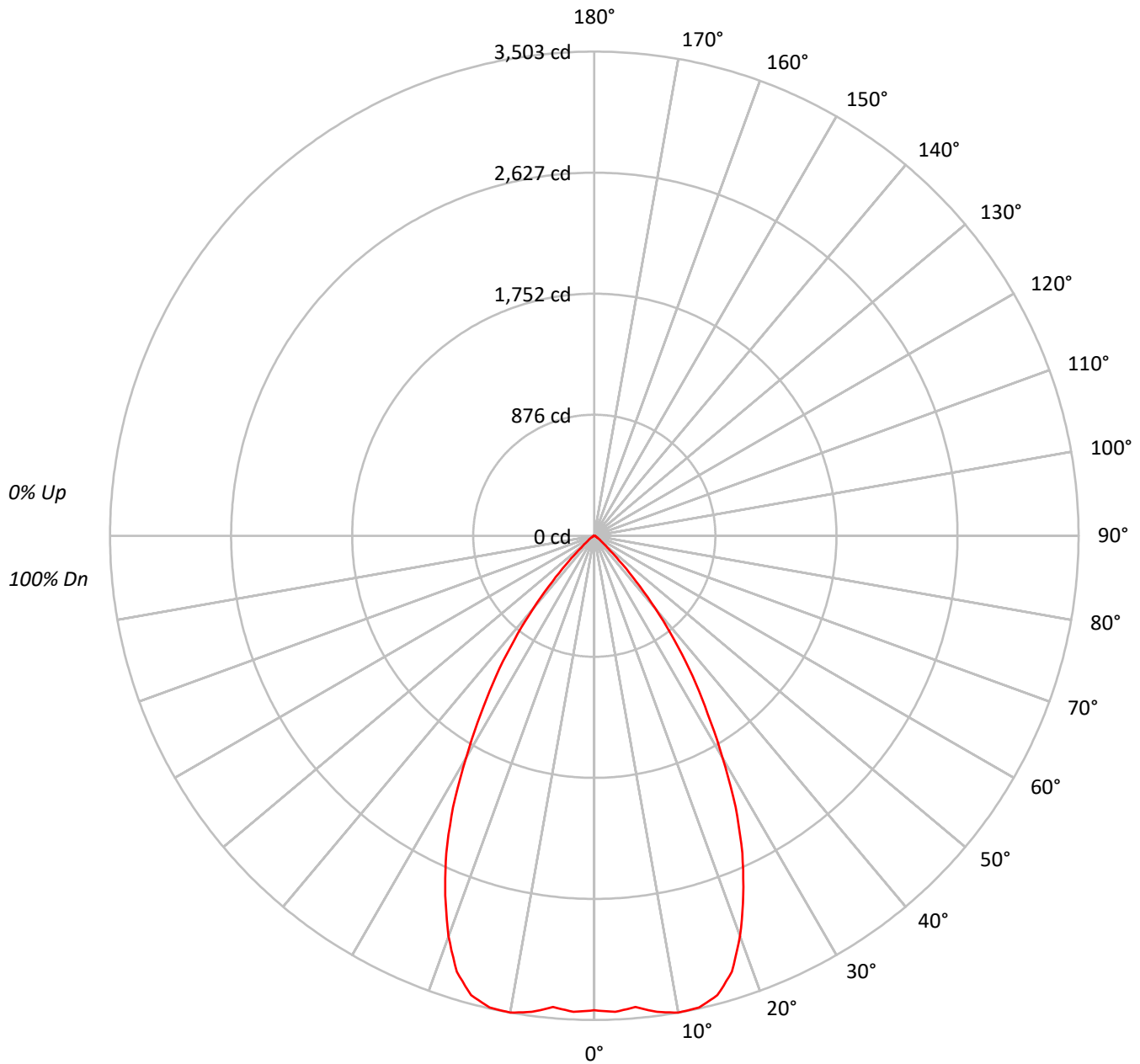


Downlight

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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	113	111	108	106	111	108	106	104	104	103	101		101	99	98		97
2	108	103	99	95	106	101	97	94	98	95	92		95	92	90		92
3	102	96	91	87	100	94	90	86	92	88	85		89	86	83		87
4	97	89	84	79	95	88	83	79	86	82	78		84	80	77		82
5	92	83	78	73	90	83	77	73	81	76	72		79	75	72		77
6	87	78	72	68	86	77	72	68	76	71	67		74	70	67		73
7	83	73	67	63	81	73	67	63	71	66	62		70	66	62		69
8	79	69	63	59	77	68	63	59	67	62	58		66	62	58		65
9	75	65	59	55	74	65	59	55	64	58	55		63	58	55		62
10	71	61	56	52	70	61	55	52	60	55	51		59	55	51		59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	375092
5°	375406
10°	388623
15°	389263
20°	358388
25°	305368
30°	233768
35°	165155
40°	97487
45°	39572
50°	14346
55°	8001
60°	4589
65°	2534
70°	2651
75°	2069
80°	2139
85°	1880

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 39572 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	330.6	9.5
10°-20°	953.6	27.3
20°-30°	1144.1	32.8
30°-40°	768.9	22.1
40°-50°	230.2	6.6
50°-60°	40.6	1.2
60°-70°	11.6	0.3
70°-80°	5.7	0.2
80°-90°	1.8	0.1
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°	2428.2	69.6
0°-40°	3197.1	91.7
0°-60°	3467.9	99.5
0°-90°	3486.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3486.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3433	
5°	3423	331
15°	3441	954
25°	2533	1144
35°	1238	769
45°	256	230
55°	42	41
65°	10	12
75°	5	6
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3433.0
2.5°	3447.7
5°	3422.8
7.5°	3474.5
10°	3502.8
12.5°	3496.0
15°	3441.3
17.5°	3307.7
20°	3082.3
22.5°	2816.9
25°	2533.0
27.5°	2212.4
30°	1852.9
32.5°	1527.0
35°	1238.2
37.5°	952.8
40°	683.5
42.5°	446.4
45°	256.1
47.5°	135.6
50°	84.4
52.5°	58.5
55°	42.0
57.5°	30.2
60°	21.0
62.5°	13.7
65°	9.8
67.5°	8.8
70°	8.3
72.5°	6.3
75°	4.9
77.5°	4.4
80°	3.4
82.5°	2.4
85°	1.5
87.5°	1.0
90°	0.0



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— 0°-180°







(END OF REPORT)