

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: P784813

Luminaire Tested: LER4DD40BD010-EC4DR6540509030-4LBDP1H

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P784813
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-EC4DR6540509030-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3296.4 lumens
Efficiency: N/A
Efficacy: 93.6 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

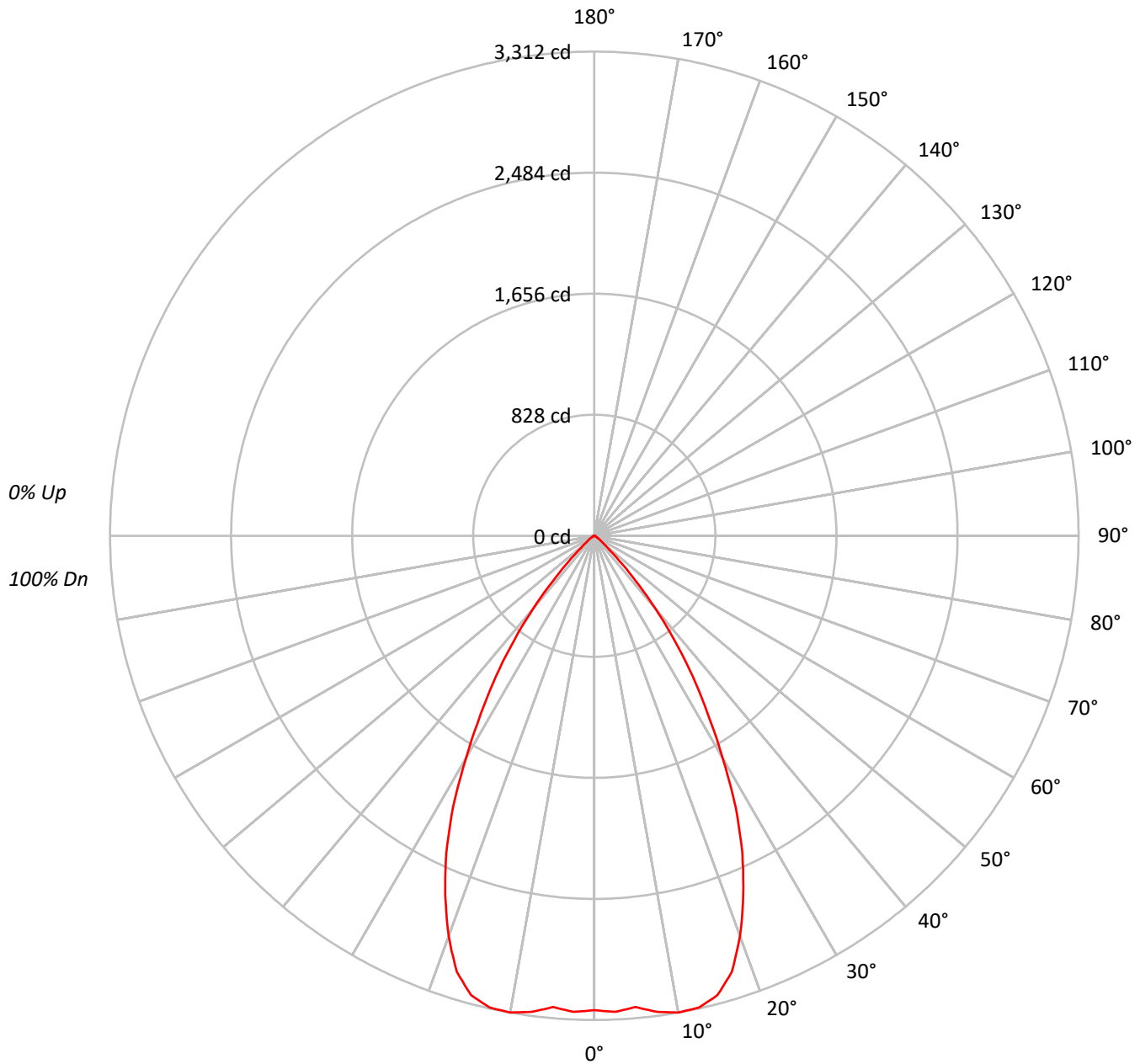


Downlight

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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	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	113	111	108	106		111	108	106	104		104	103	101		101	99	98		97	96	95
2	108	103	99	95		106	101	97	94		98	95	92		95	92	90		92	90	88
3	102	96	91	87		100	94	90	86		92	88	85		89	86	83		87	84	82
4	97	89	84	79		95	88	83	79		86	82	78		84	80	77		82	79	76
5	92	83	78	73		90	83	77	73		81	76	72		79	75	72		77	74	71
6	87	78	72	68		86	77	72	68		76	71	67		74	70	67		73	69	66
7	83	73	67	63		81	73	67	63		71	66	62		70	66	62		69	65	62
8	79	69	63	59		77	68	63	59		67	62	58		66	62	58		65	61	58
9	75	65	59	55		74	65	59	55		64	58	55		63	58	55		62	58	54
10	71	61	56	52		70	61	55	52		60	55	51		59	55	51		59	54	51

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	354606
5°	354896
10°	367399
15°	368009
20°	338808
25°	288683
30°	221001
35°	156125
40°	92167
45°	37409
50°	13564
55°	7562
60°	4327
65°	2379
70°	2492
75°	1942
80°	2013
85°	1755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 37409 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.5	9.5
10°-20°	901.5	27.3
20°-30°	1081.6	32.8
30°-40°	726.9	22.1
40°-50°	217.6	6.6
50°-60°	38.4	1.2
60°-70°	10.9	0.3
70°-80°	5.4	0.2
80°-90°	1.7	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°	2295.6	69.6
0°-40°	3022.4	91.7
0°-60°	3278.4	99.5
0°-90°	3296.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3296.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3246	
5°	3236	313
15°	3253	901
25°	2395	1082
35°	1170	727
45°	242	218
55°	40	38
65°	9	11
75°	5	5
85°	1	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3245.5
2.5°	3259.4
5°	3235.8
7.5°	3284.7
10°	3311.5
12.5°	3305.0
15°	3253.4
17.5°	3127.0
20°	2913.9
22.5°	2663.0
25°	2394.6
27.5°	2091.6
30°	1751.7
32.5°	1443.6
35°	1170.5
37.5°	900.7
40°	646.2
42.5°	422.0
45°	242.1
47.5°	128.2
50°	79.8
52.5°	55.3
55°	39.7
57.5°	28.6
60°	19.8
62.5°	12.9
65°	9.2
67.5°	8.3
70°	7.8
72.5°	6.0
75°	4.6
77.5°	4.2
80°	3.2
82.5°	2.3
85°	1.4
87.5°	0.9
90°	0.0



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— 0°-180°







(END OF REPORT)