

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: P784806

Luminaire Tested: LER4DD40BD010-EC4DR6540509024-4LBDP1LI

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P784806
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-EC4DR6540509024-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2965.9 lumens
Efficiency: N/A
Efficacy: 84.3 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

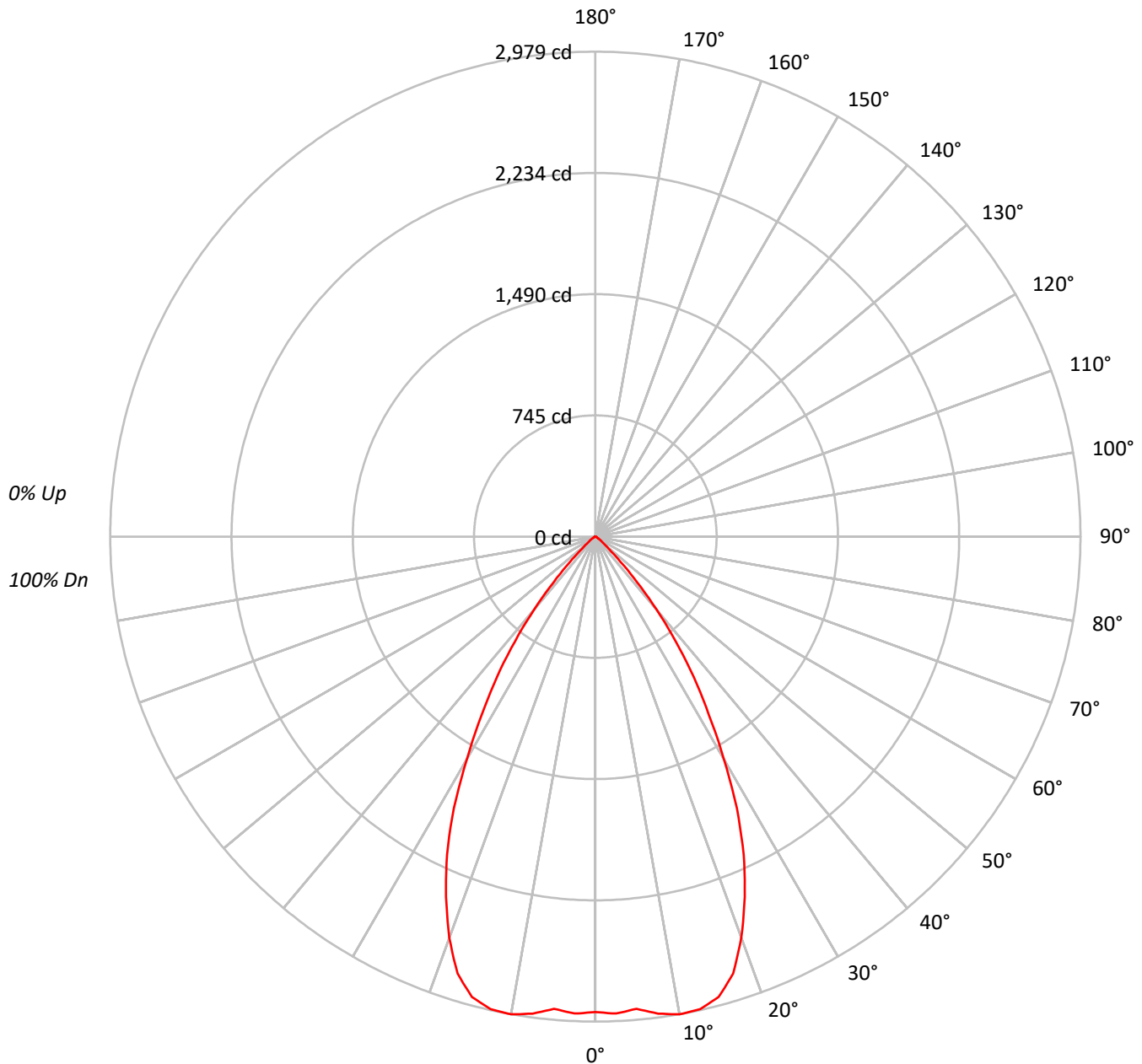


Downlight

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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°	319052
5°	319317
10°	330553
15°	331110
20°	304833
25°	259738
30°	198834
35°	140479
40°	82925
45°	33669
50°	12205
55°	6801
60°	3890
65°	2146
70°	2268
75°	1731
80°	1825
85°	1504

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 33669 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.2	9.5
10°-20°	811.1	27.3
20°-30°	973.1	32.8
30°-40°	654.0	22.1
40°-50°	195.8	6.6
50°-60°	34.5	1.2
60°-70°	9.8	0.3
70°-80°	4.8	0.2
80°-90°	1.5	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°	2065.4	69.6
0°-40°	2719.4	91.7
0°-60°	2949.7	99.5
0°-90°	2965.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2965.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2920	
5°	2911	281
15°	2927	811
25°	2154	973
35°	1053	654
45°	218	196
55°	36	35
65°	8	10
75°	4	5
85°	1	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2920.1
2.5°	2932.6
5°	2911.4
7.5°	2955.4
10°	2979.4
12.5°	2973.6
15°	2927.2
17.5°	2813.5
20°	2621.7
22.5°	2396.0
25°	2154.5
27.5°	1881.9
30°	1576.0
32.5°	1298.8
35°	1053.2
37.5°	810.4
40°	581.4
42.5°	379.7
45°	217.9
47.5°	115.4
50°	71.8
52.5°	49.8
55°	35.7
57.5°	25.7
60°	17.8
62.5°	11.6
65°	8.3
67.5°	7.5
70°	7.1
72.5°	5.4
75°	4.1
77.5°	3.7
80°	2.9
82.5°	2.1
85°	1.2
87.5°	0.8
90°	0.0



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— 0°-180°







(END OF REPORT)