

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: P784788

Luminaire Tested: LER4DD40BD010-EC4DR6040509030-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P784788
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-57)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4DD40BD010-EC4DR6040509030-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2970.9 lumens
Efficiency: N/A
Efficacy: 84.4 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.83
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 35.2
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

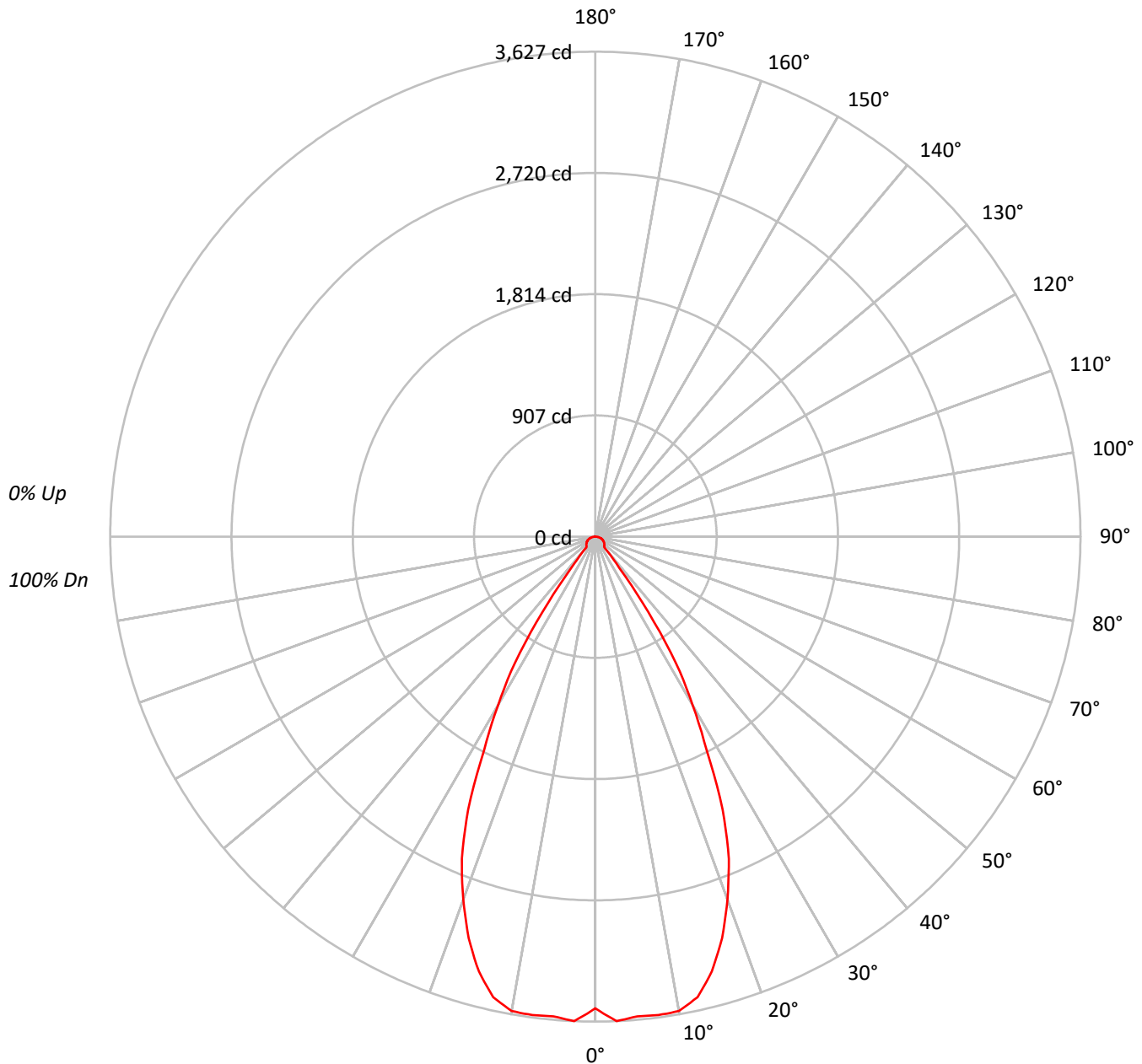


Downlight

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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	108	105	111	108	106	104	104	102	100		100	99	97		97
2	107	102	98	95	105	101	97	94	97	94	92		94	92	90		92
3	102	96	90	86	100	94	89	86	91	88	84		89	86	83		87
4	97	89	84	80	95	88	83	79	86	82	78		84	80	77		82
5	92	84	78	74	91	83	78	74	81	77	73		80	76	72		78
6	88	79	73	69	87	78	73	69	77	72	68		75	71	68		74
7	84	75	69	65	83	74	68	64	73	68	64		72	67	64		71
8	80	71	65	61	79	70	65	61	69	64	60		68	64	60		67
9	77	67	61	57	75	67	61	57	66	61	57		65	60	57		64
10	73	64	58	54	72	63	58	54	62	58	54		62	57	54		61

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	385494
5°	394973
10°	399751
15°	380813
20°	335761
25°	271576
30°	183694
35°	92047
40°	14933
45°	14617
50°	14907
55°	15125
60°	15559
65°	15900
70°	16292
75°	16464
80°	15919
85°	13288

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 75°

Luminance: 16464 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.2	11.6
10°-20°	931.2	31.3
20°-30°	1001.9	33.7
30°-40°	435.5	14.7
40°-50°	73.2	2.5
50°-60°	71.1	2.4
60°-70°	60.8	2.0
70°-80°	40.7	1.4
80°-90°	12.2	0.4
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°	2277.3	76.7
0°-40°	2712.8	91.3
0°-60°	2857.1	96.2
0°-90°	2970.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2970.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3528	
5°	3601	344
15°	3367	931
25°	2253	1002
35°	690	436
45°	95	73
55°	79	71
65°	62	61
75°	39	41
85°	11	12
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3528.2
2.5°	3627.4
5°	3601.2
7.5°	3609.5
10°	3603.1
12.5°	3528.7
15°	3366.6
17.5°	3149.0
20°	2887.7
22.5°	2608.1
25°	2252.7
27.5°	1801.8
30°	1456.0
32.5°	1122.2
35°	690.1
37.5°	295.2
40°	104.7
42.5°	96.4
45°	94.6
47.5°	91.4
50°	87.7
52.5°	83.6
55°	79.4
57.5°	75.3
60°	71.2
62.5°	66.6
65°	61.5
67.5°	56.5
70°	51.0
72.5°	45.0
75°	39.0
77.5°	32.1
80°	25.3
82.5°	17.9
85°	10.6
87.5°	3.7
90°	0.0



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— 0°-180°







(END OF REPORT)