

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: P785328

Luminaire Tested: LER4DD50D010-EC4DR7040509050-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P785328
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-73)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4DD50D010-EC4DR7040509050-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3027.9 lumens
Efficiency: N/A
Efficacy: 64.4 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.82
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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

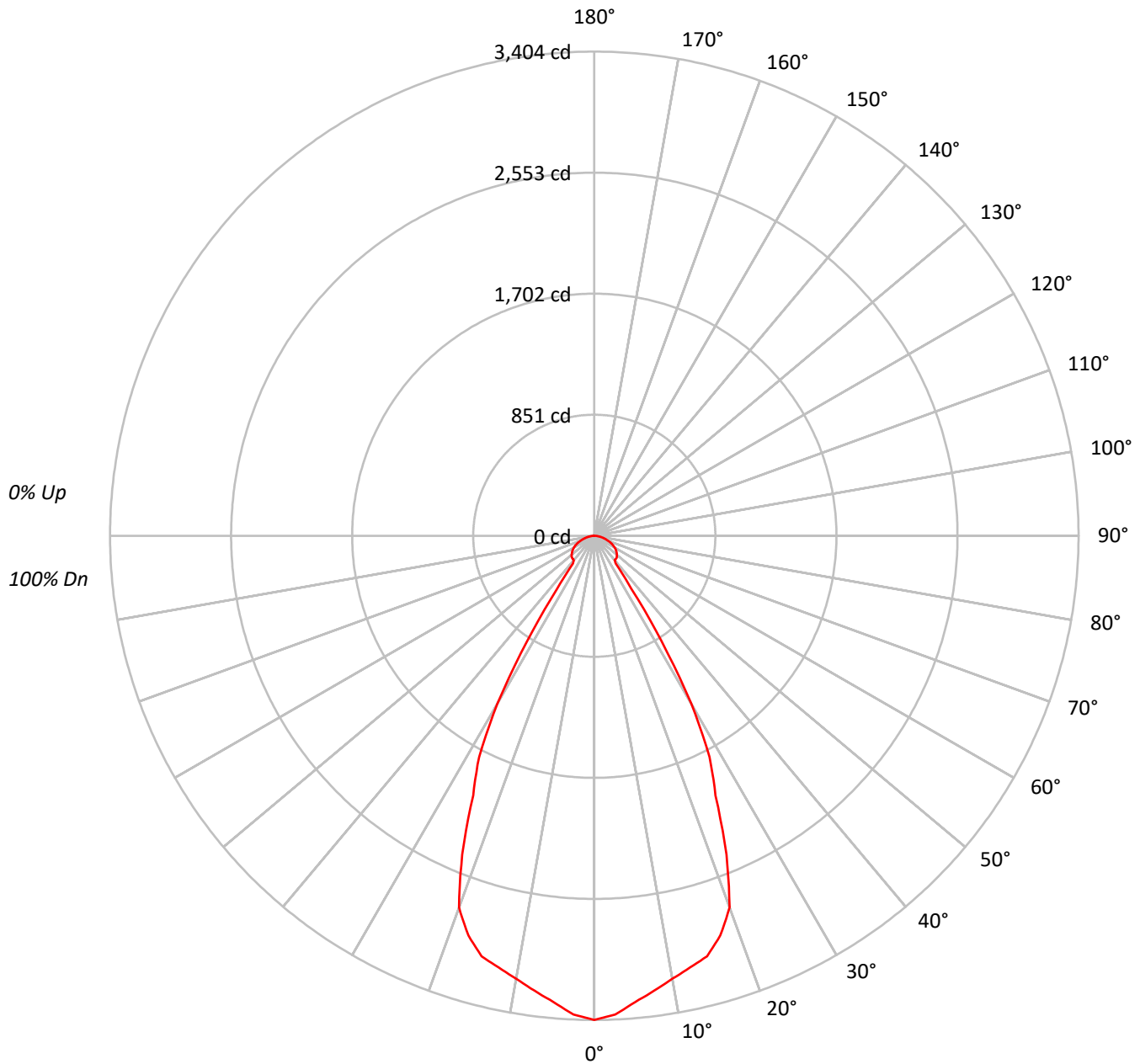


Downlight

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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	112	109	106	103	110	107	104	102	103	101	99		99	97	96		95
2	106	100	95	91	103	98	94	90	95	91	88		92	89	86		89
3	100	92	87	82	98	91	86	81	88	84	80		86	82	79		83
4	94	86	80	75	92	85	79	74	82	77	73		80	76	73		78
5	89	80	74	69	87	79	73	69	77	72	68		75	71	67		74
6	85	75	68	64	83	74	68	64	73	67	63		71	66	63		70
7	80	70	64	59	79	70	64	59	68	63	59		67	62	59		66
8	77	66	60	56	75	66	60	56	65	59	55		64	59	55		63
9	73	63	57	52	72	62	56	52	61	56	52		60	55	52		60
10	70	59	53	49	69	59	53	49	58	53	49		57	52	49		57

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	371945
5°	360896
10°	350834
15°	346234
20°	323308
25°	242884
30°	171696
35°	60823
40°	31978
45°	34056
50°	35271
55°	35926
60°	36165
65°	35393
70°	33415
75°	30944
80°	27496
85°	22315

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 36176 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.4	10.3
10°-20°	851.3	28.1
20°-30°	937.6	31.0
30°-40°	358.2	11.8
40°-50°	169.1	5.6
50°-60°	168.2	5.6
60°-70°	134.6	4.4
70°-80°	77.4	2.6
80°-90°	21.0	0.7
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°	2099.3	69.3
0°-40°	2457.5	81.2
0°-60°	2794.8	92.3
0°-90°	3027.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3027.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3404	
5°	3290	310
15°	3061	851
25°	2015	938
35°	456	358
45°	220	169
55°	189	168
65°	137	135
75°	73	77
85°	18	21
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3404.2
2.5°	3368.7
5°	3290.5
7.5°	3225.3
10°	3162.2
12.5°	3108.9
15°	3060.9
17.5°	2945.0
20°	2780.6
22.5°	2426.0
25°	2014.7
27.5°	1753.9
30°	1360.9
32.5°	879.1
35°	456.0
37.5°	246.3
40°	224.2
42.5°	222.6
45°	220.4
47.5°	215.6
50°	207.5
52.5°	198.3
55°	188.6
57.5°	177.9
60°	165.5
62.5°	151.5
65°	136.9
67.5°	120.7
70°	104.6
72.5°	88.4
75°	73.3
77.5°	57.7
80°	43.7
82.5°	30.7
85°	17.8
87.5°	7.0
90°	0.0



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— 0°-180°







(END OF REPORT)