

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: P781556

Luminaire Tested: LER4D45BD010-EC4DR4540509040-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781556
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D45BD010-EC4DR4540509040-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 45° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4401.0 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Spacing Criteria (0/90/45): 0.75 / 0.75 / 0.69
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 38.7
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

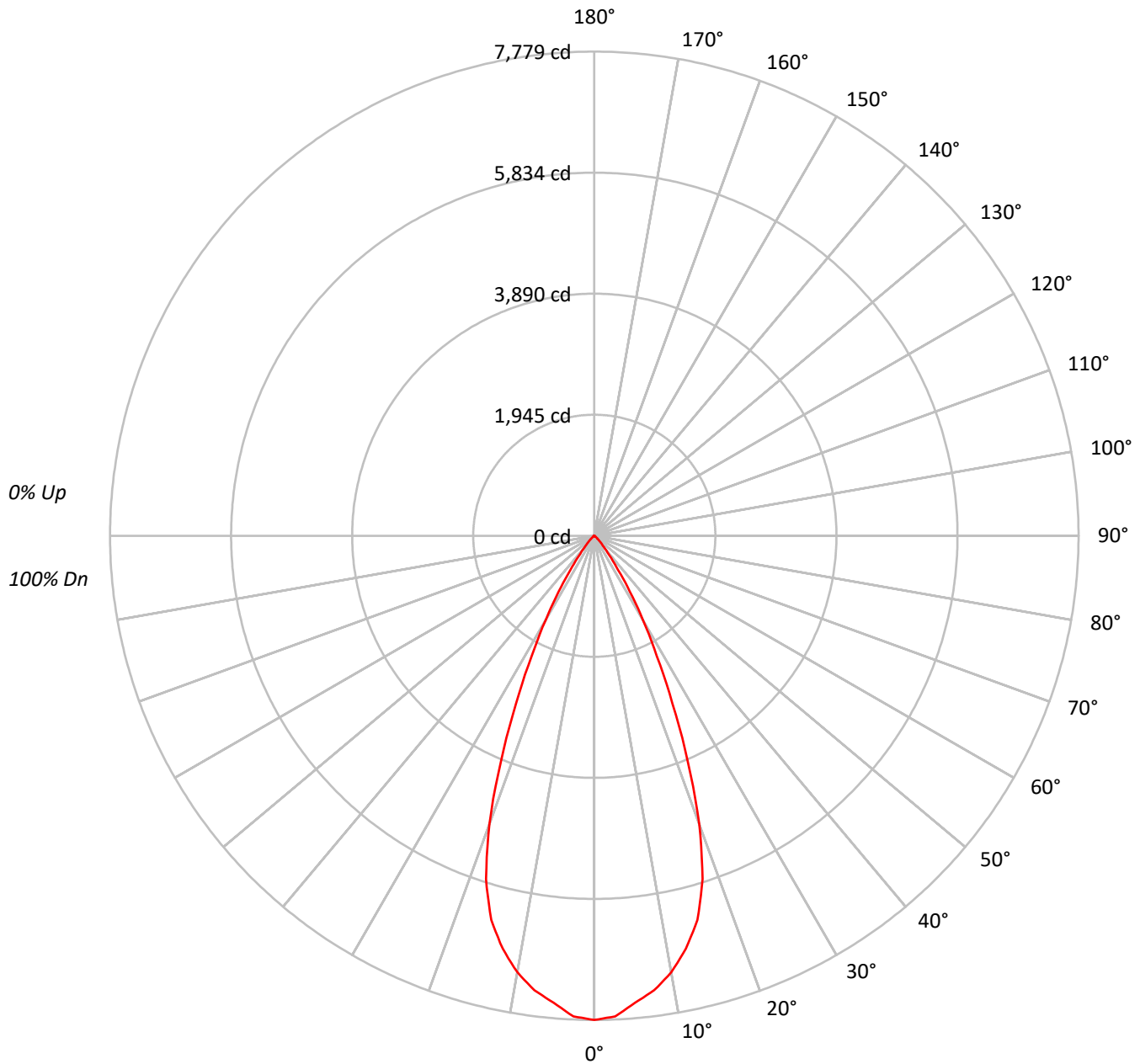


Downlight

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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	114	112	110	108		112	110	108	106		106	104	103		102	101	100		98	98	97
2	109	105	102	99		107	103	100	98		100	98	95		97	95	93		95	93	91
3	105	99	95	91		103	98	94	91		95	92	89		93	90	88		91	89	87
4	100	94	89	85		99	93	88	85		91	87	84		89	86	83		87	84	82
5	96	89	84	80		95	88	83	80		86	82	79		85	81	79		83	80	78
6	92	85	80	76		91	84	79	76		83	78	75		81	77	75		80	77	74
7	89	81	75	72		87	80	75	72		79	74	71		78	74	71		77	73	71
8	85	77	72	68		84	76	71	68		75	71	68		74	70	67		73	70	67
9	82	73	68	65		81	73	68	65		72	68	65		71	67	64		71	67	64
10	79	70	65	62		78	70	65	62		69	65	62		68	64	61		68	64	61

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	849928
5°	825723
10°	789993
15°	723009
20°	573597
25°	358111
30°	197383
35°	88633
40°	34902
45°	16456
50°	7802
55°	4076
60°	2010
65°	465
70°	192
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 16456 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	707.4	16.1
10°-20°	1741.0	39.6
20°-30°	1378.7	31.3
30°-40°	459.1	10.4
40°-50°	91.1	2.1
50°-60°	20.7	0.5
60°-70°	3.0	0.1
70°-80°	0.1	0.0
80°-90°	0.0	0.0
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°	3827.0	87.0
0°-40°	4286.1	97.4
0°-60°	4398.0	99.9
0°-90°	4401.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4401.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7779	
5°	7529	707
15°	6392	1741
25°	2970	1379
35°	664	459
45°	106	91
55°	21	21
65°	2	3
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	7778.9
2.5°	7728.1
5°	7528.6
7.5°	7364.0
10°	7120.5
12.5°	6796.3
15°	6391.8
17.5°	5783.7
20°	4933.2
22.5°	3920.0
25°	2970.5
27.5°	2175.1
30°	1564.5
32.5°	1064.0
35°	664.5
37.5°	394.0
40°	244.7
42.5°	160.9
45°	106.5
47.5°	68.5
50°	45.9
52.5°	30.6
55°	21.4
57.5°	14.1
60°	9.2
62.5°	4.9
65°	1.8
67.5°	0.6
70°	0.6
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





— 0°-180°







(END OF REPORT)