

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: P781636

Luminaire Tested: LER4D45BD010-EC4DR6540509024-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P781636
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-147)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D45BD010-EC4DR6540509024-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3024.0 lumens
Efficiency: N/A
Efficacy: 78.1 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.96
Luminous Opening: Circular (Dia: 0.48' 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

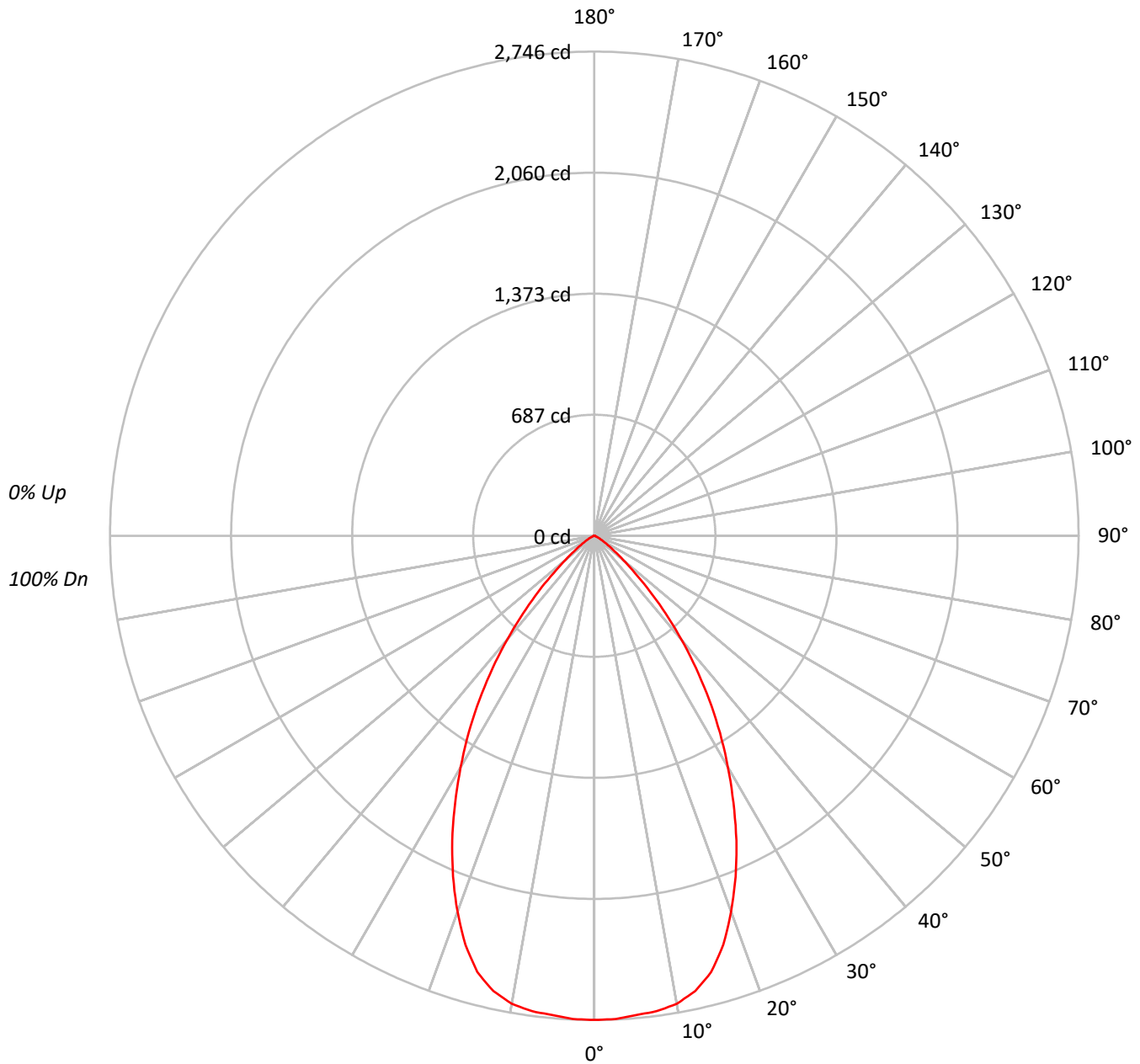


Downlight

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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	113	110	107	105	111	108	105	103	104	102	100		100	99	97		97
2	107	102	97	94	105	100	96	92	97	93	90		94	91	88		91
3	101	94	88	84	99	92	87	83	90	86	82		87	84	81		85
4	95	87	81	76	93	86	80	76	84	79	75		82	77	74		80
5	90	81	74	70	88	80	74	69	78	73	69		76	72	68		75
6	85	75	69	64	83	74	68	64	73	67	63		71	67	63		70
7	80	70	64	59	79	69	63	59	68	63	59		67	62	58		66
8	76	66	59	55	75	65	59	55	64	58	54		63	58	54		62
9	72	61	55	51	71	61	55	51	60	54	51		59	54	50		58
10	68	58	52	47	67	57	51	47	57	51	47		56	51	47		55

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	160354
5°	159952
10°	159815
15°	154891
20°	141004
25°	122877
30°	102204
35°	80980
40°	58446
45°	36928
50°	19244
55°	10233
60°	5373
65°	2957
70°	1247
75°	1376
80°	942
85°	804

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 36928 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.6	8.6
10°-20°	711.0	23.5
20°-30°	869.1	28.7
30°-40°	705.2	23.3
40°-50°	351.4	11.6
50°-60°	98.0	3.2
60°-70°	22.3	0.7
70°-80°	5.8	0.2
80°-90°	1.5	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°	1839.8	60.8
0°-40°	2545.0	84.2
0°-60°	2994.4	99.0
0°-90°	3024.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3024.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2746	
5°	2728	260
15°	2562	711
25°	1907	869
35°	1136	705
45°	447	351
55°	100	98
65°	21	22
75°	6	6
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2745.6
2.5°	2743.6
5°	2728.3
7.5°	2719.4
10°	2694.8
12.5°	2644.8
15°	2561.7
17.5°	2431.7
20°	2268.7
22.5°	2092.8
25°	1906.8
27.5°	1707.9
30°	1515.5
32.5°	1325.4
35°	1135.8
37.5°	946.6
40°	766.6
42.5°	598.0
45°	447.1
47.5°	311.5
50°	211.8
52.5°	146.1
55°	100.5
57.5°	67.8
60°	46.0
62.5°	31.9
65°	21.4
67.5°	10.9
70°	7.3
72.5°	6.9
75°	6.1
77.5°	4.0
80°	2.8
82.5°	2.0
85°	1.2
87.5°	0.8
90°	0.0



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— 0°-180°







(END OF REPORT)