

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: P781419

Luminaire Tested: LER4D40BD010-EC4DR6540509050-4LBS1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P781419
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: LER4D40BD010-EC4DR6540509050-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3512.6 lumens
Efficiency: N/A
Efficacy: 99.8 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): 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

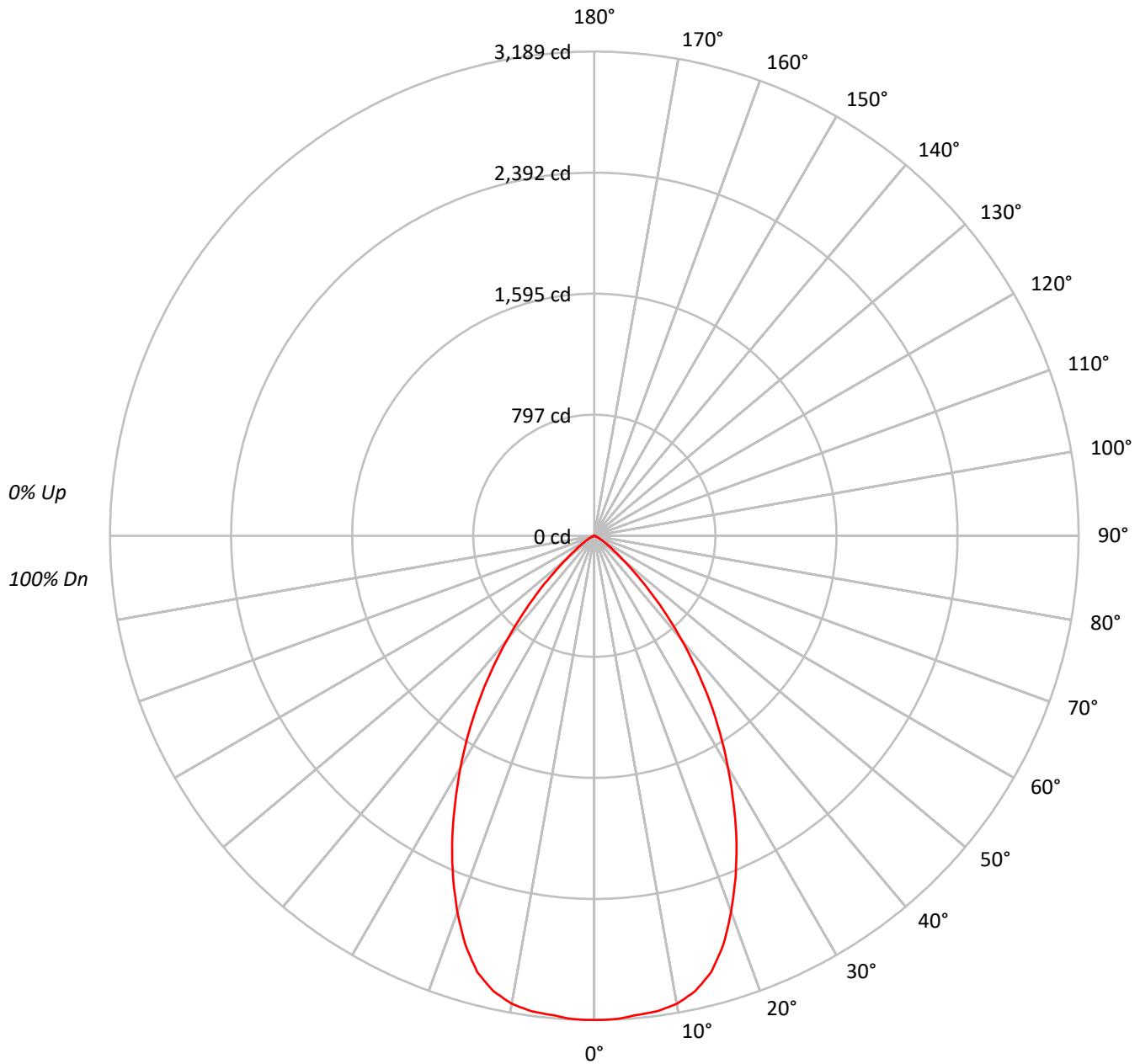


Downlight

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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	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	113	110	107	105		111	108	105	103		104	102	100		100	99	97		97	95	94
2	107	102	97	94		105	100	96	92		97	93	90		94	91	88		91	89	87
3	101	94	88	84		99	92	87	83		90	86	82		87	84	81		85	82	80
4	95	87	81	76		93	86	80	76		84	79	75		82	77	74		80	76	73
5	90	81	74	70		88	80	74	69		78	73	69		76	72	68		75	71	68
6	85	75	69	64		83	74	68	64		73	67	63		71	67	63		70	66	62
7	80	70	64	59		79	69	63	59		68	63	59		67	62	58		66	61	58
8	76	66	59	55		75	65	59	55		64	58	54		63	58	54		62	57	54
9	72	61	55	51		71	61	55	51		60	54	51		59	54	50		58	54	50
10	68	58	52	47		67	57	51	47		57	51	47		56	51	47		55	50	47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	186267
5°	185801
10°	185642
15°	179917
20°	163796
25°	142738
30°	118713
35°	94063
40°	67892
45°	42892
50°	22361
55°	11883
60°	6238
65°	3427
70°	1434
75°	1580
80°	1110
85°	938

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 42892 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.6	8.6
10°-20°	825.9	23.5
20°-30°	1009.6	28.7
30°-40°	819.1	23.3
40°-50°	408.2	11.6
50°-60°	113.9	3.2
60°-70°	25.9	0.7
70°-80°	6.7	0.2
80°-90°	1.7	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°	2137.1	60.8
0°-40°	2956.2	84.2
0°-60°	3478.3	99.0
0°-90°	3512.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3512.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3189	
5°	3169	302
15°	2976	826
25°	2215	1010
35°	1319	819
45°	519	408
55°	117	114
65°	25	26
75°	7	7
85°	1	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3189.3
2.5°	3187.0
5°	3169.2
7.5°	3158.9
10°	3130.3
12.5°	3072.2
15°	2975.6
17.5°	2824.7
20°	2635.4
22.5°	2431.0
25°	2215.0
27.5°	1983.9
30°	1760.3
32.5°	1539.6
35°	1319.3
37.5°	1099.5
40°	890.5
42.5°	694.6
45°	519.3
47.5°	361.8
50°	246.1
52.5°	169.7
55°	116.7
57.5°	78.7
60°	53.4
62.5°	37.0
65°	24.8
67.5°	12.7
70°	8.4
72.5°	8.0
75°	7.0
77.5°	4.7
80°	3.3
82.5°	2.3
85°	1.4
87.5°	0.9
90°	0.0



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— 0°-180°







(END OF REPORT)