

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: P781237

Luminaire Tested: LER4D40BD010-EC4DR3040509030-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781237
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D40BD010-EC4DR3040509030-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3867.0 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 35.2
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

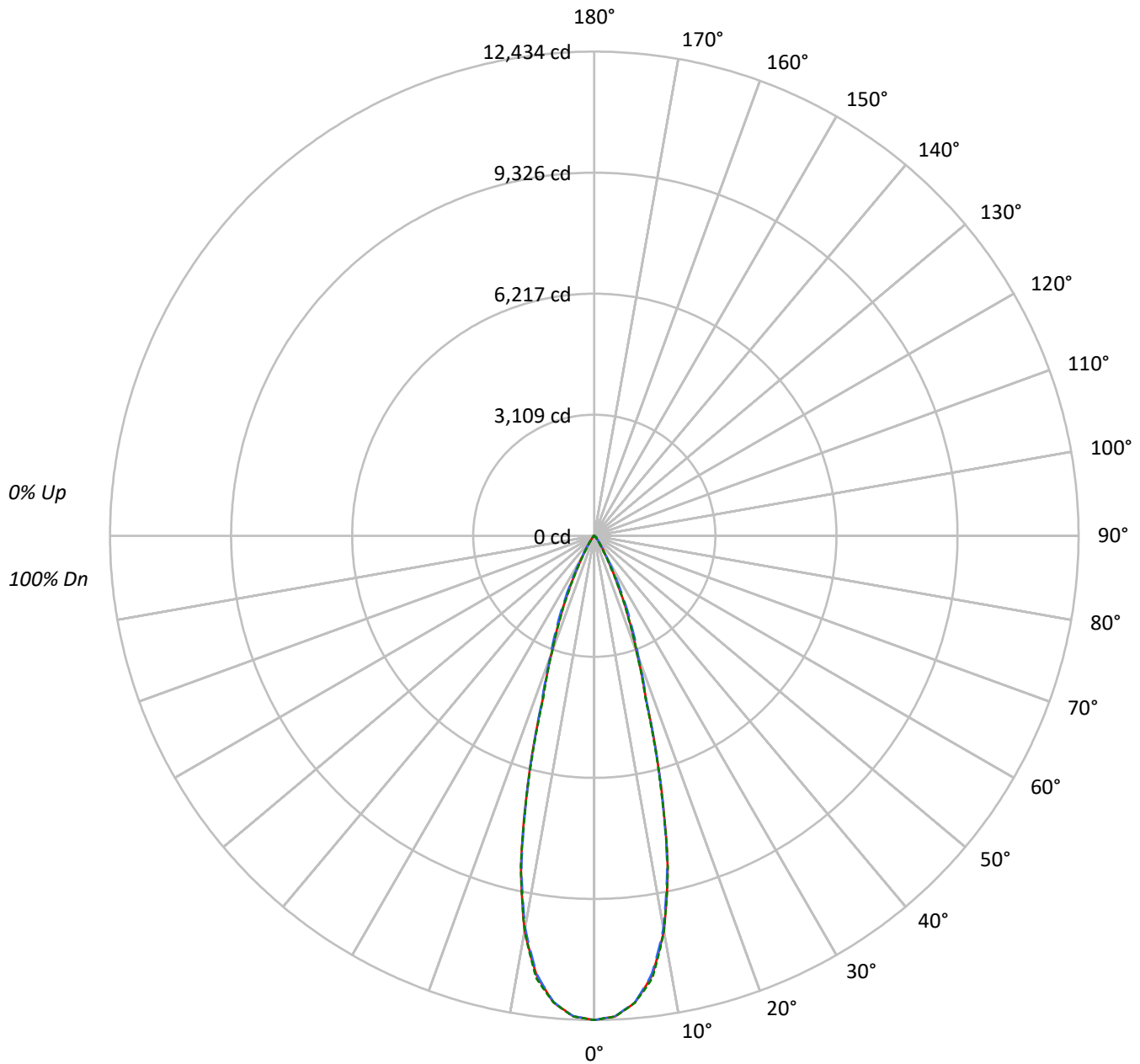


Downlight

TEST NUMBER: P781237

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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	115	113	111	109	112	110	109	107	106	105	104		103	102	101		99
2	111	107	104	101	109	105	102	100	102	100	98		99	97	96		97
3	107	102	98	95	105	101	97	94	98	95	93		96	93	91		94
4	103	98	93	90	102	96	93	90	94	91	89		93	90	88		91
5	100	94	89	86	98	93	89	86	91	88	85		90	86	84		88
6	97	90	85	82	95	89	85	82	88	84	81		87	83	81		85
7	94	87	82	79	92	86	82	79	85	81	78		84	81	78		83
8	91	84	79	76	90	83	79	76	82	78	76		81	78	75		80
9	88	81	76	73	87	80	76	73	80	76	73		79	75	73		78
10	85	78	74	71	85	78	74	71	77	73	71		76	73	71		76

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	951764	951764	951764
5°	924442	923359	924488
10°	800707	795056	800513
15°	522421	519616	517001
20°	259779	269521	259429
25°	130857	147562	128179
30°	52394	57088	45651
35°	24304	23276	19511
40°	10492	11651	9882
45°	7404	9190	7469
50°	2548	6692	2691
55°	1468	2776	1548
60°	1026	1209	1026
65°	670	670	670
70°	403	269	403
75°	0	177	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 9190 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1093.4	28.3
10°-20°	1760.9	45.5
20°-30°	760.9	19.7
30°-40°	173.4	4.5
40°-50°	59.6	1.5
50°-60°	14.6	0.4
60°-70°	3.8	0.1
70°-80°	0.4	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°	3615.3	93.5
0°-40°	3788.7	98.0
0°-60°	3862.8	99.9
0°-90°	3867.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3867.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12434	12434	12434	12434	12434	
5°	12031	12020	12017	12042	12032	1094
15°	6593	6513	6557	6536	6524	1765
25°	1549	1608	1747	1567	1518	742
35°	260	266	249	247	209	176
45°	68	85	85	85	69	49
55°	11	12	21	12	12	11
65°	4	4	4	4	4	4
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12434.3	12434.3	12434.3	12434.3	12434.3
2.5°	12351.9	12343.3	12348.2	12354.3	12356.7
5°	12031.4	12019.8	12017.3	12042.4	12032.0
7.5°	11384.9	11368.4	11343.3	11400.1	11453.2
10°	10301.9	10283.6	10229.2	10256.1	10299.4
12.5°	8703.0	8643.8	8642.6	8728.0	8716.4
15°	6592.6	6513.2	6557.2	6535.8	6524.2
17.5°	4433.3	4402.8	4461.4	4443.7	4367.4
20°	3189.2	3197.1	3308.8	3252.6	3184.9
22.5°	2327.2	2355.8	2488.3	2343.6	2290.5
25°	1549.4	1608.0	1747.2	1567.1	1517.7
27.5°	953.0	979.8	1120.8	940.8	913.9
30°	592.8	579.3	645.9	554.3	516.5
32.5°	388.9	371.8	393.1	352.9	322.3
35°	260.1	265.6	249.1	247.2	208.8
37.5°	162.4	186.8	164.8	175.8	134.3
40°	105.0	135.5	116.6	128.8	98.9
42.5°	86.1	104.4	95.8	102.0	87.9
45°	68.4	84.9	84.9	84.9	69.0
47.5°	37.8	56.8	72.6	58.0	40.3
50°	21.4	28.7	56.2	29.9	22.6
52.5°	14.7	16.5	38.5	17.1	15.3
55°	11.0	11.6	20.8	12.2	11.6
57.5°	8.5	9.2	11.0	9.2	8.5
60°	6.7	6.7	7.9	7.3	6.7
62.5°	4.9	4.9	5.5	4.9	4.9
65°	3.7	3.7	3.7	3.7	3.7
67.5°	1.8	2.4	2.4	2.4	2.4
70°	1.8	1.2	1.2	1.2	1.8
72.5°	1.2	0.6	0.6	0.6	0.6
75°	0.0	0.0	0.6	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	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° - - 45°-225° - - - 90°-270°







(END OF REPORT)