

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: P778931

Luminaire Tested: LER4D05D010-EC4DR300210IC9027-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P778931
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: LER4D05D010-EC4DR300210IC9027-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 601.3 lumens
Efficiency: N/A
Efficacy: 80.2 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): 7.5
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



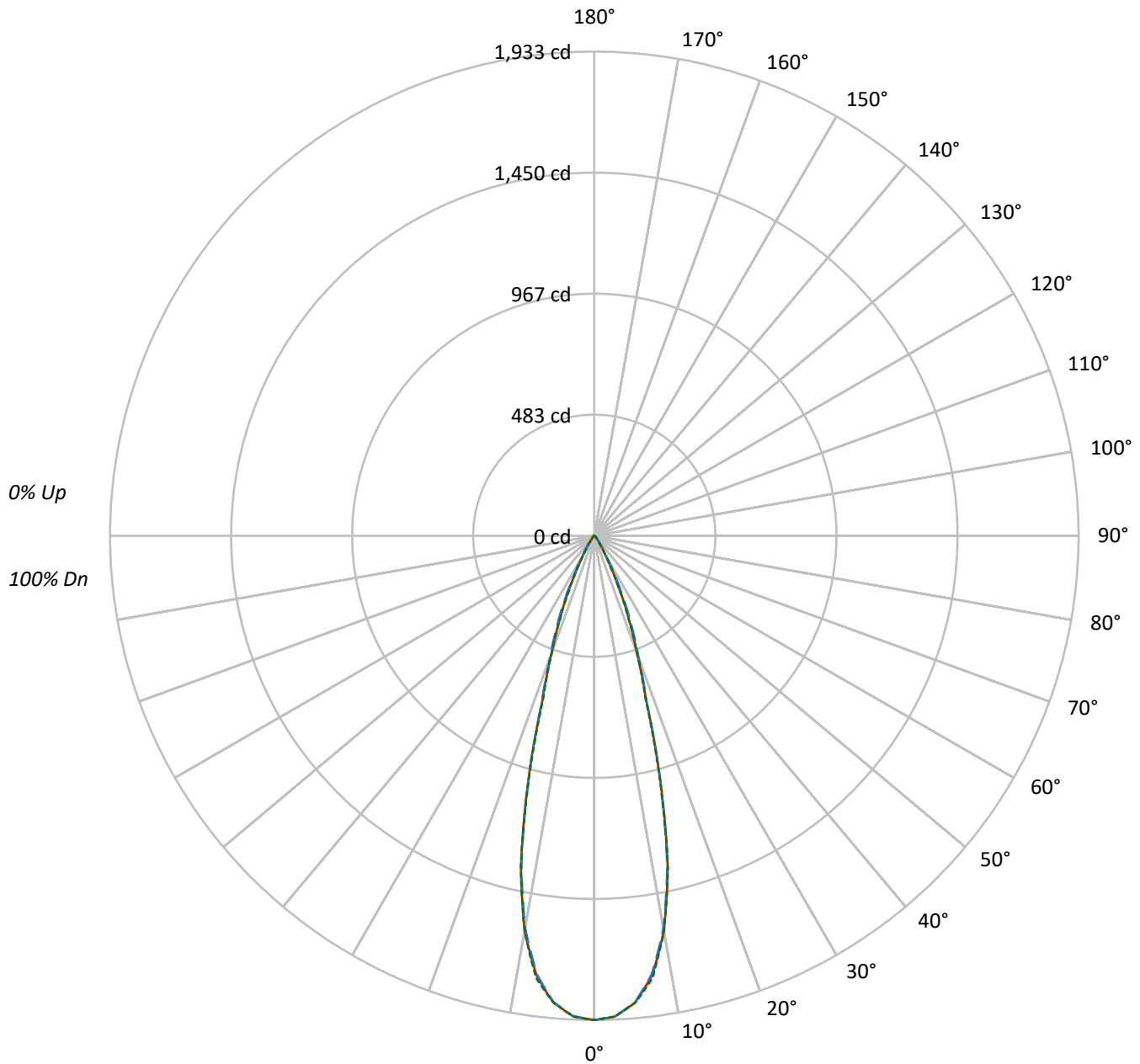
Downlight



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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	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°	147989	147989	147989
5°	143737	143575	143752
10°	124499	123620	124475
15°	81233	80797	80393
20°	40394	41909	40337
25°	20346	22947	19932
30°	8149	8874	7097
35°	3784	3616	3037
40°	1629	1809	1539
45°	1158	1429	1158
50°	393	1036	417
55°	227	427	240
60°	153	199	153
65°	109	109	109
70°	67	45	67
75°	0	30	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 1429 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.0	28.3
10°-20°	273.8	45.5
20°-30°	118.3	19.7
30°-40°	27.0	4.5
40°-50°	9.3	1.5
50°-60°	2.2	0.4
60°-70°	0.6	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°	562.1	93.5
0°-40°	589.1	98.0
0°-60°	600.6	99.9
0°-90°	601.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	601.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1933	1933	1933	1933	1933	
5°	1871	1869	1869	1872	1871	170
15°	1025	1013	1020	1016	1014	274
25°	241	250	272	244	236	115
35°	40	41	39	38	32	27
45°	11	13	13	13	11	8
55°	2	2	3	2	2	2
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
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°	1933.4	1933.4	1933.4	1933.4	1933.4
2.5°	1920.6	1919.3	1920.0	1920.9	1921.3
5°	1870.7	1869.0	1868.6	1872.5	1870.9
7.5°	1770.2	1767.7	1763.8	1772.6	1780.8
10°	1601.8	1599.0	1590.5	1594.7	1601.5
12.5°	1353.2	1344.0	1343.8	1357.1	1355.3
15°	1025.1	1012.7	1019.6	1016.2	1014.5
17.5°	689.3	684.6	693.7	690.9	679.1
20°	495.9	497.1	514.5	505.7	495.2
22.5°	361.8	366.3	386.9	364.4	356.1
25°	240.9	250.0	271.7	243.7	236.0
27.5°	148.2	152.3	174.3	146.3	142.1
30°	92.2	90.1	100.4	86.2	80.3
32.5°	60.4	57.8	61.1	54.9	50.1
35°	40.5	41.3	38.7	38.4	32.5
37.5°	25.3	29.0	25.6	27.3	20.9
40°	16.3	21.1	18.1	20.1	15.4
42.5°	13.4	16.2	14.9	15.9	13.7
45°	10.7	13.2	13.2	13.2	10.7
47.5°	5.9	8.8	11.3	9.0	6.2
50°	3.3	4.5	8.7	4.6	3.5
52.5°	2.3	2.6	6.0	2.6	2.3
55°	1.7	1.8	3.2	1.9	1.8
57.5°	1.3	1.4	1.7	1.4	1.3
60°	1.0	1.0	1.3	1.1	1.0
62.5°	0.7	0.7	0.9	0.7	0.7
65°	0.6	0.6	0.6	0.6	0.6
67.5°	0.3	0.4	0.4	0.4	0.4
70°	0.3	0.2	0.2	0.2	0.3
72.5°	0.2	0.1	0.1	0.1	0.1
75°	0.0	0.0	0.1	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



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)