

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: P778943

Luminaire Tested: LER4D05D010-EC4DR300210IC9040-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P778943
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-EC4DR300210IC9040-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 673.5 lumens
Efficiency: N/A
Efficacy: 89.8 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



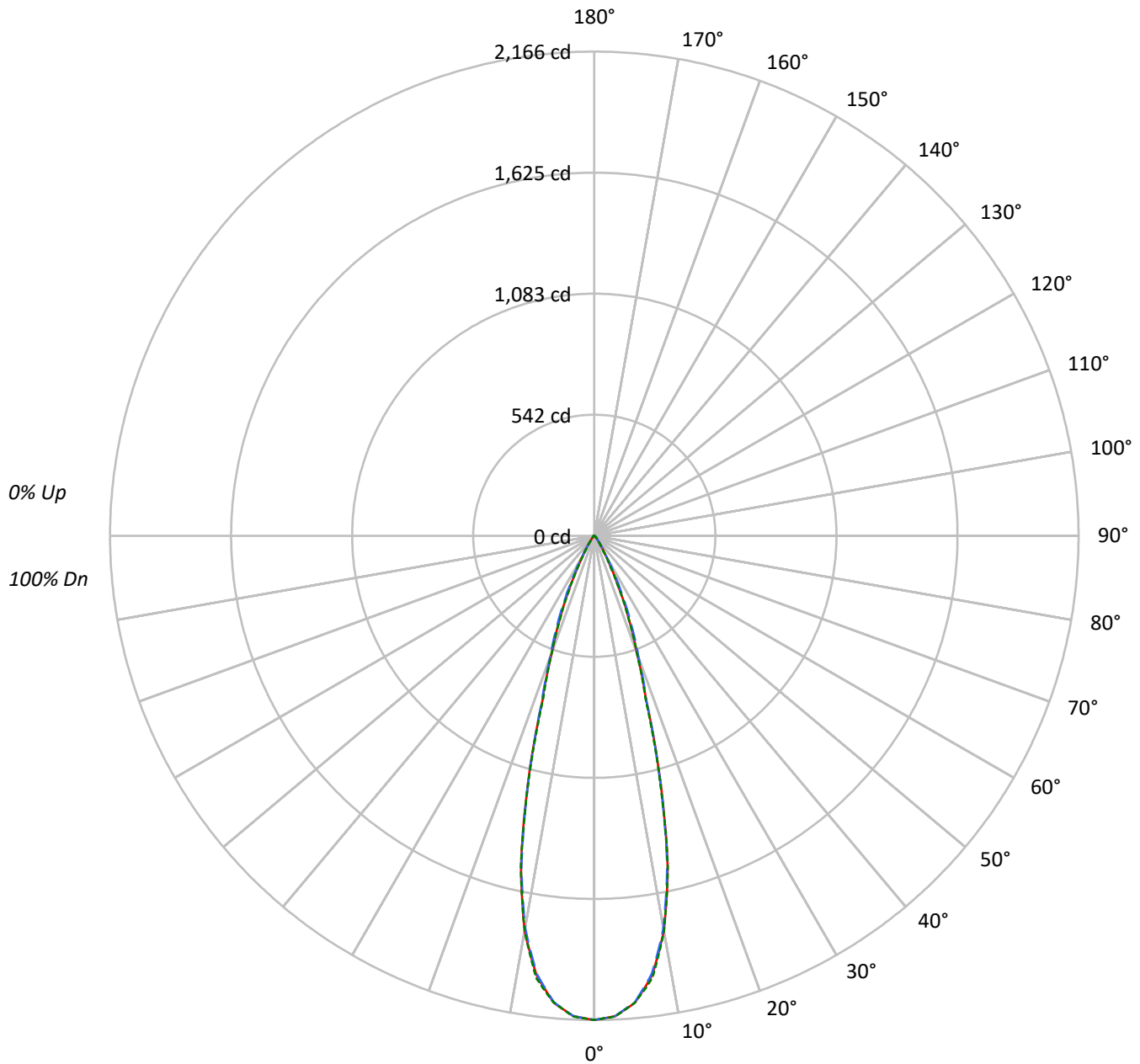
Downlight



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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	87	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°	165778	165778	165778
5°	161017	160825	161025
10°	139468	138481	139429
15°	90995	90504	90052
20°	45249	46943	45184
25°	22795	25700	22330
30°	9121	9943	7955
35°	4233	4055	3401
40°	1829	2028	1719
45°	1288	1602	1299
50°	441	1167	476
55°	254	480	267
60°	168	214	168
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: 1602 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.4	28.3
10°-20°	306.7	45.5
20°-30°	132.5	19.7
30°-40°	30.2	4.5
40°-50°	10.4	1.5
50°-60°	2.5	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°	629.7	93.5
0°-40°	659.9	98.0
0°-60°	672.8	99.9
0°-90°	673.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	673.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2166	2166	2166	2166	2166	
5°	2096	2094	2093	2098	2096	191
15°	1148	1134	1142	1138	1136	307
25°	270	280	304	273	264	129
35°	45	46	43	43	36	31
45°	12	15	15	15	12	8
55°	2	2	4	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°	2165.8	2165.8	2165.8	2165.8	2165.8
2.5°	2151.4	2149.9	2150.7	2151.8	2152.2
5°	2095.6	2093.6	2093.1	2097.5	2095.7
7.5°	1983.0	1980.1	1975.8	1985.6	1994.9
10°	1794.4	1791.2	1781.7	1786.3	1793.9
12.5°	1515.9	1505.5	1505.3	1520.2	1518.2
15°	1148.3	1134.4	1142.1	1138.4	1136.4
17.5°	772.2	766.8	777.1	774.0	760.7
20°	555.5	556.9	576.3	566.5	554.7
22.5°	405.4	410.3	433.4	408.2	398.9
25°	269.9	280.1	304.3	273.0	264.4
27.5°	166.0	170.7	195.2	163.9	159.2
30°	103.2	100.9	112.5	96.5	90.0
32.5°	67.7	64.7	68.5	61.5	56.1
35°	45.3	46.2	43.4	43.1	36.4
37.5°	28.3	32.5	28.7	30.6	23.4
40°	18.3	23.6	20.3	22.5	17.2
42.5°	15.0	18.2	16.7	17.8	15.3
45°	11.9	14.8	14.8	14.8	12.0
47.5°	6.6	9.9	12.7	10.1	7.0
50°	3.7	5.0	9.8	5.2	4.0
52.5°	2.6	2.9	6.7	3.0	2.6
55°	1.9	2.0	3.6	2.1	2.0
57.5°	1.5	1.6	1.9	1.6	1.5
60°	1.1	1.1	1.4	1.3	1.1
62.5°	0.9	0.9	1.0	0.9	0.9
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)