

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: P778941

Luminaire Tested: LER4D05D010-EC4DR300210IC9040-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P778941
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-EC4DR300210IC9040-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 708.6 lumens
Efficiency: N/A
Efficacy: 94.5 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



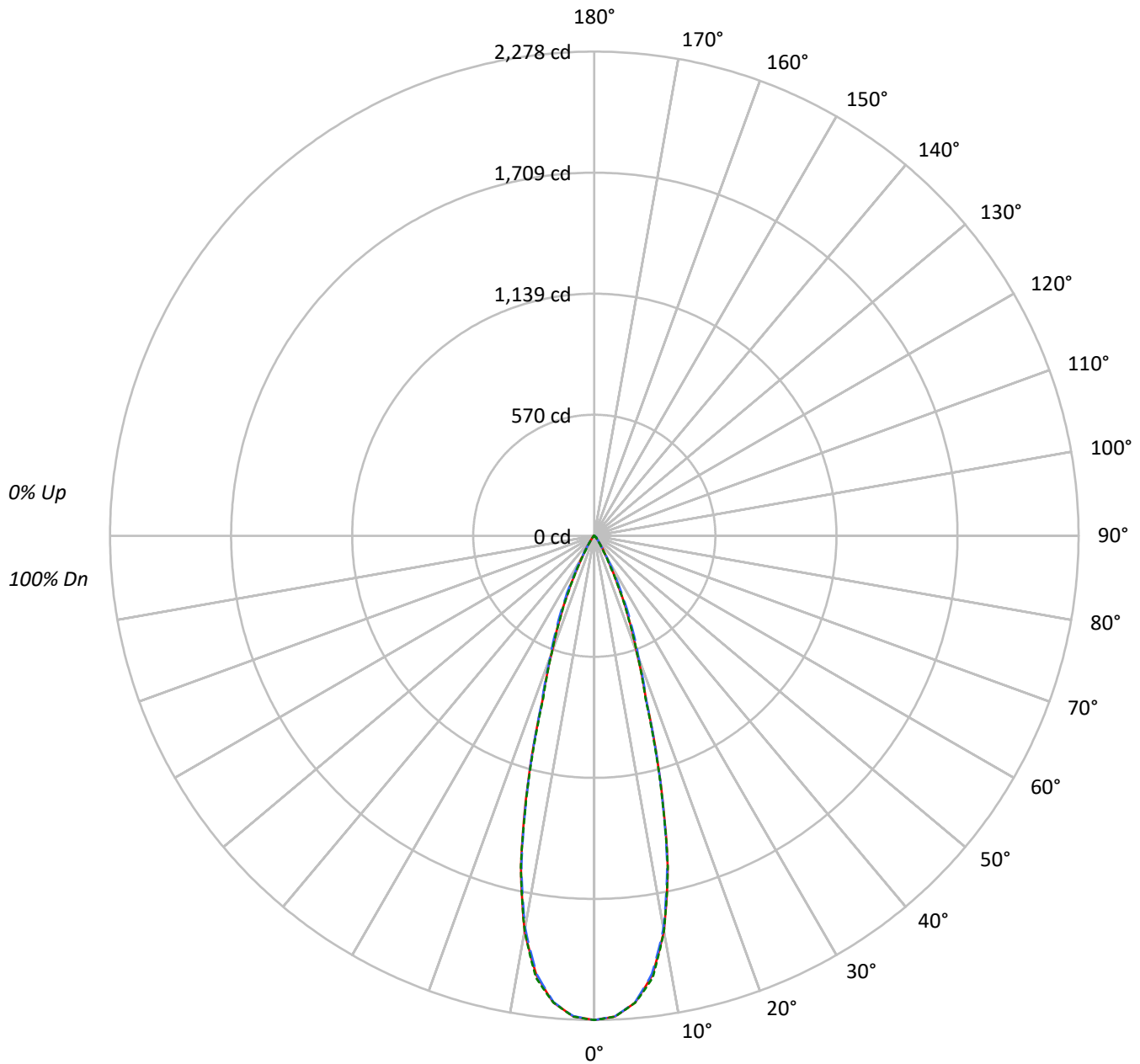
Downlight



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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					0
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	115	113	111	109	112	110	109	107		106	105	104		103	102	101		99	99	98
2	111	107	104	101	109	105	102	100		102	100	98		99	97	96		97	95	94
3	107	102	98	95	105	101	97	94		98	95	93		96	93	91		94	92	90
4	103	98	93	90	102	96	93	90		94	91	89		93	90	88		91	89	87
5	100	94	89	86	98	93	89	86		91	88	85		90	86	84		88	86	83
6	97	90	85	82	95	89	85	82		88	84	81		87	83	81		85	83	80
7	94	87	82	79	92	86	82	79		85	81	78		84	81	78		83	80	78
8	91	84	79	76	90	83	79	76		82	78	76		81	78	75		80	77	75
9	88	81	76	73	87	80	76	73		80	76	73		79	75	73		78	75	73
10	85	78	74	71	85	78	74	71		77	73	71		76	73	71		76	73	70

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	174396	174396	174396
5°	169392	169192	169400
10°	146720	145686	146681
15°	95726	95211	94736
20°	47603	49387	47538
25°	23977	27043	23487
30°	9599	10465	8370
35°	4457	4270	3579
40°	1928	2138	1809
45°	1353	1678	1375
50°	464	1227	488
55°	267	507	280
60°	184	214	184
65°	127	127	127
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: 1678 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.4	28.3
10°-20°	322.7	45.5
20°-30°	139.4	19.7
30°-40°	31.8	4.5
40°-50°	10.9	1.5
50°-60°	2.7	0.4
60°-70°	0.7	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°	662.5	93.5
0°-40°	694.2	98.0
0°-60°	707.8	99.9
0°-90°	708.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	708.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2278	2278	2278	2278	2278	
5°	2205	2202	2202	2207	2205	201
15°	1208	1194	1202	1198	1196	323
25°	284	295	320	287	278	136
35°	48	49	46	45	38	32
45°	12	16	16	16	13	9
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°	2278.4	2278.4	2278.4	2278.4	2278.4
2.5°	2263.3	2261.8	2262.6	2263.8	2264.2
5°	2204.6	2202.5	2202.0	2206.6	2204.7
7.5°	2086.1	2083.1	2078.5	2088.9	2098.7
10°	1887.7	1884.3	1874.4	1879.3	1887.2
12.5°	1594.7	1583.9	1583.6	1599.3	1597.2
15°	1208.0	1193.5	1201.5	1197.6	1195.5
17.5°	812.3	806.8	817.5	814.2	800.2
20°	584.4	585.8	606.3	596.0	583.6
22.5°	426.4	431.7	456.0	429.4	419.7
25°	283.9	294.7	320.2	287.2	278.1
27.5°	174.6	179.6	205.4	172.4	167.5
30°	108.6	106.2	118.4	101.6	94.7
32.5°	71.3	68.1	72.0	64.6	59.1
35°	47.7	48.6	45.7	45.3	38.3
37.5°	29.7	34.2	30.2	32.2	24.6
40°	19.3	24.8	21.4	23.6	18.1
42.5°	15.8	19.1	17.6	18.7	16.1
45°	12.5	15.5	15.5	15.5	12.7
47.5°	6.9	10.4	13.3	10.6	7.4
50°	3.9	5.3	10.3	5.5	4.1
52.5°	2.7	3.0	7.0	3.2	2.8
55°	2.0	2.1	3.8	2.2	2.1
57.5°	1.5	1.7	2.0	1.7	1.5
60°	1.2	1.2	1.4	1.3	1.2
62.5°	0.9	0.9	1.0	0.9	0.9
65°	0.7	0.7	0.7	0.7	0.7
67.5°	0.3	0.5	0.5	0.5	0.5
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)