

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: P778965

Luminaire Tested: LER4D05D010-EC4DR350210IC9040-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P778965
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-20)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D05D010-EC4DR350210IC9040-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 35° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 693.1 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.6 / 0.54
Luminous Opening: Circular (Dia: 0.35' 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



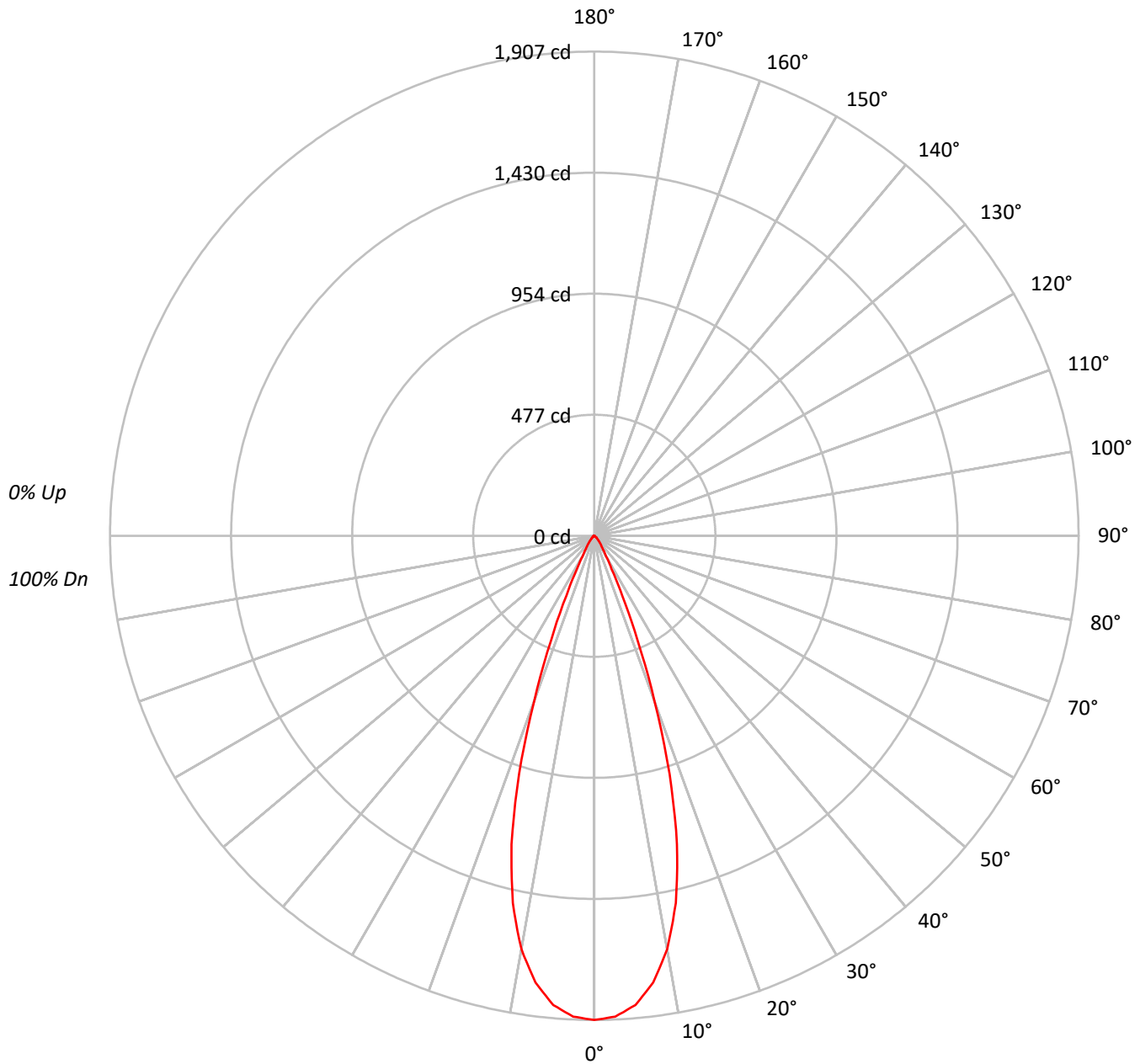
Downlight



TEST NUMBER: P778965

CATALOG NUMBER: LER4D05D010-EC4DR350210IC9040-4LBS1H

Luminous Intensity Polar Plot





TEST NUMBER: P778965

CATALOG NUMBER: LER4D05D010-EC4DR350210IC9040-4LBS1H

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	112	110	108	112	110	108	107	106	105	103		103	101	100		99
2	110	106	103	101	108	105	102	99	102	99	97		99	97	95		96
3	106	101	97	94	105	100	96	93	97	95	92		95	93	91		93
4	103	97	92	89	101	96	92	89	94	90	88		92	89	87		90
5	99	93	88	85	98	92	87	84	90	86	84		89	85	83		87
6	96	89	84	81	94	88	84	81	87	83	80		85	82	80		84
7	93	85	81	78	91	85	80	77	84	80	77		83	79	77		82
8	90	82	78	74	88	82	77	74	81	77	74		80	76	74		79
9	87	79	75	72	86	79	75	72	78	74	71		77	74	71		77
10	84	77	72	69	83	76	72	69	76	72	69		75	71	69		74

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	208360
5°	203464
10°	183372
15°	142333
20°	80728
25°	31405
30°	11721
35°	6416
40°	4193
45°	2565
50°	1632
55°	1143
60°	830
65°	465
70°	32
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2565 cd/sqm



TEST NUMBER: P778965

CATALOG NUMBER: LER4D05D010-EC4DR350210IC9040-4LBS1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.6	24.6
10°-20°	333.1	48.1
20°-30°	135.8	19.6
30°-40°	32.5	4.7
40°-50°	13.6	2.0
50°-60°	5.6	0.8
60°-70°	1.7	0.3
70°-80°	0.0	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°	639.6	92.3
0°-40°	672.1	97.0
0°-60°	691.3	99.7
0°-90°	693.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	693.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1907	
5°	1855	171
15°	1258	333
25°	260	136
35°	48	32
45°	17	14
55°	6	6
65°	2	2
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P778965

CATALOG NUMBER: LER4D05D010-EC4DR350210IC9040-4LBS1H

CANDELA DISTRIBUTION (FULL):

	0°
0°	1907.0
2.5°	1895.6
5°	1855.1
7.5°	1774.4
10°	1652.8
12.5°	1481.7
15°	1258.3
17.5°	985.1
20°	694.3
22.5°	442.7
25°	260.5
27.5°	147.2
30°	92.9
32.5°	65.2
35°	48.1
37.5°	37.2
40°	29.4
42.5°	22.7
45°	16.6
47.5°	12.4
50°	9.6
52.5°	7.6
55°	6.0
57.5°	4.9
60°	3.8
62.5°	2.8
65°	1.8
67.5°	0.6
70°	0.1
72.5°	0.1
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.1
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180°







(END OF REPORT)