

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: P780642

Luminaire Tested: LER4D25D010-EC4DR6520359035-4LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P780642
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-147)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D25D010-EC4DR6520359035-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2436.2 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.96
Luminous Opening: Circular (Dia: 0.48' x H: 0')
CIE Type: Direct

Input Watts (W): 25.1
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



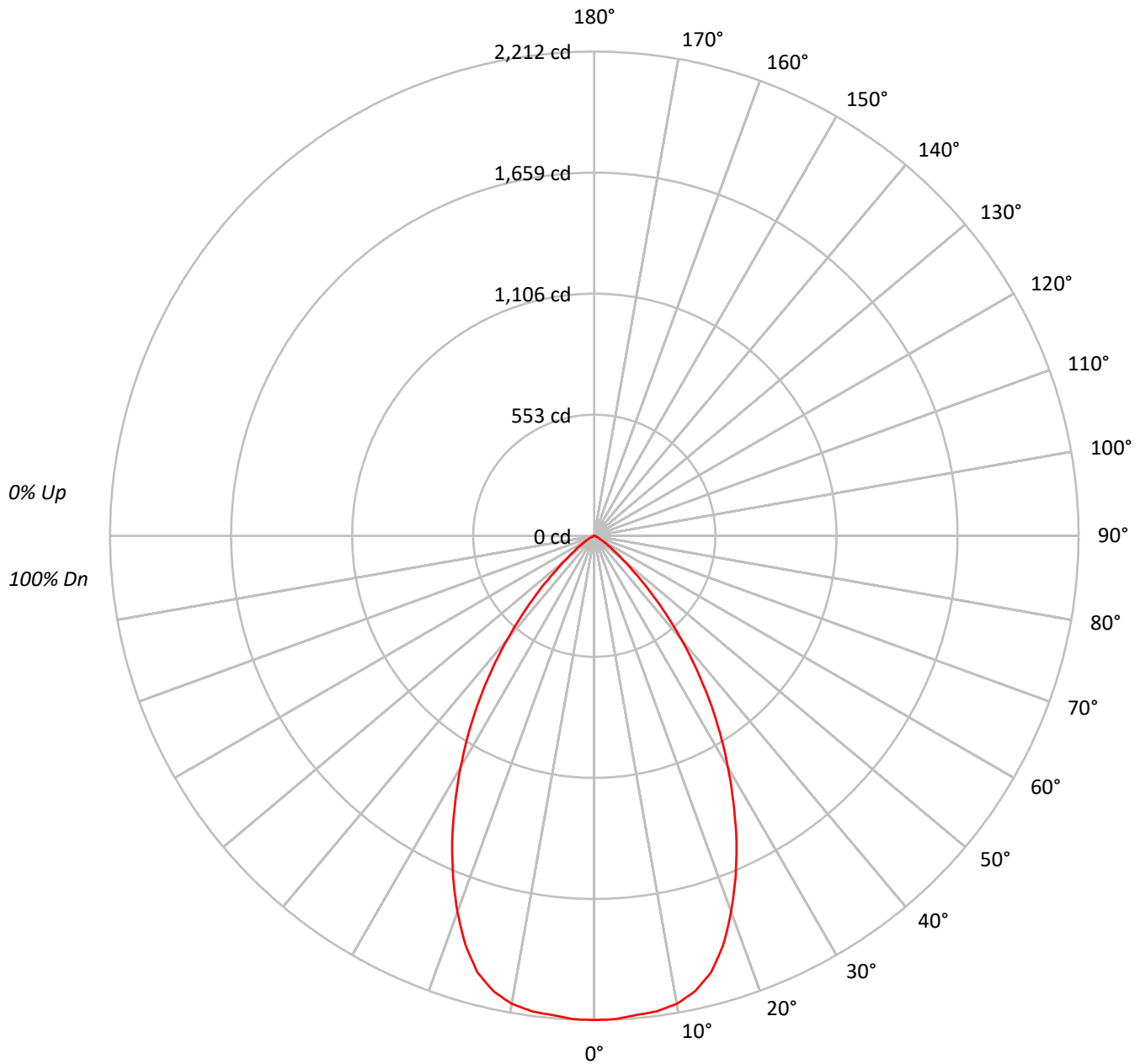
Downlight



TEST NUMBER: P780642

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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	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	113	110	107	105		111	108	105	103		104	102	100		100	99	97		97	95	94
2	107	102	97	94		105	100	96	92		97	93	90		94	91	88		91	89	87
3	101	94	88	84		99	92	87	83		90	86	82		87	84	81		85	82	80
4	95	87	81	76		93	86	80	76		84	79	75		82	77	74		80	76	73
5	90	81	74	70		88	80	74	69		78	73	69		76	72	68		75	71	68
6	85	75	69	64		83	74	68	64		73	67	63		71	67	63		70	66	62
7	80	70	64	59		79	69	63	59		68	63	59		67	62	58		66	61	58
8	76	66	59	55		75	65	59	55		64	58	54		63	58	54		62	57	54
9	72	61	55	51		71	61	55	51		60	54	51		59	54	50		58	54	50
10	68	58	52	47		67	57	51	47		57	51	47		56	51	47		55	50	47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	129189
5°	128862
10°	128751
15°	124786
20°	113602
25°	98995
30°	82336
35°	65238
40°	47086
45°	29751
50°	15510
55°	8248
60°	4334
65°	2377
70°	990
75°	1106
80°	774
85°	670

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 29751 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.2	8.6
10°-20°	572.8	23.5
20°-30°	700.2	28.7
30°-40°	568.1	23.3
40°-50°	283.1	11.6
50°-60°	79.0	3.2
60°-70°	17.9	0.7
70°-80°	4.7	0.2
80°-90°	1.2	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°	1482.2	60.8
0°-40°	2050.3	84.2
0°-60°	2412.4	99.0
0°-90°	2436.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2436.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2212	
5°	2198	209
15°	2064	573
25°	1536	700
35°	915	568
45°	360	283
55°	81	79
65°	17	18
75°	5	5
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2212.0
2.5°	2210.4
5°	2198.0
7.5°	2190.8
10°	2171.0
12.5°	2130.7
15°	2063.8
17.5°	1959.1
20°	1827.8
22.5°	1686.1
25°	1536.2
27.5°	1375.9
30°	1220.9
32.5°	1067.8
35°	915.0
37.5°	762.6
40°	617.6
42.5°	481.7
45°	360.2
47.5°	251.0
50°	170.7
52.5°	117.7
55°	81.0
57.5°	54.6
60°	37.1
62.5°	25.7
65°	17.2
67.5°	8.8
70°	5.8
72.5°	5.5
75°	4.9
77.5°	3.3
80°	2.3
82.5°	1.6
85°	1.0
87.5°	0.6
90°	0.0



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— 0°-180°







(END OF REPORT)