

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: P780636

Luminaire Tested: LER4D25D010-EC4DR6520359030-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P780636
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-EC4DR6520359030-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2040.6 lumens
Efficiency: N/A
Efficacy: 81.3 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



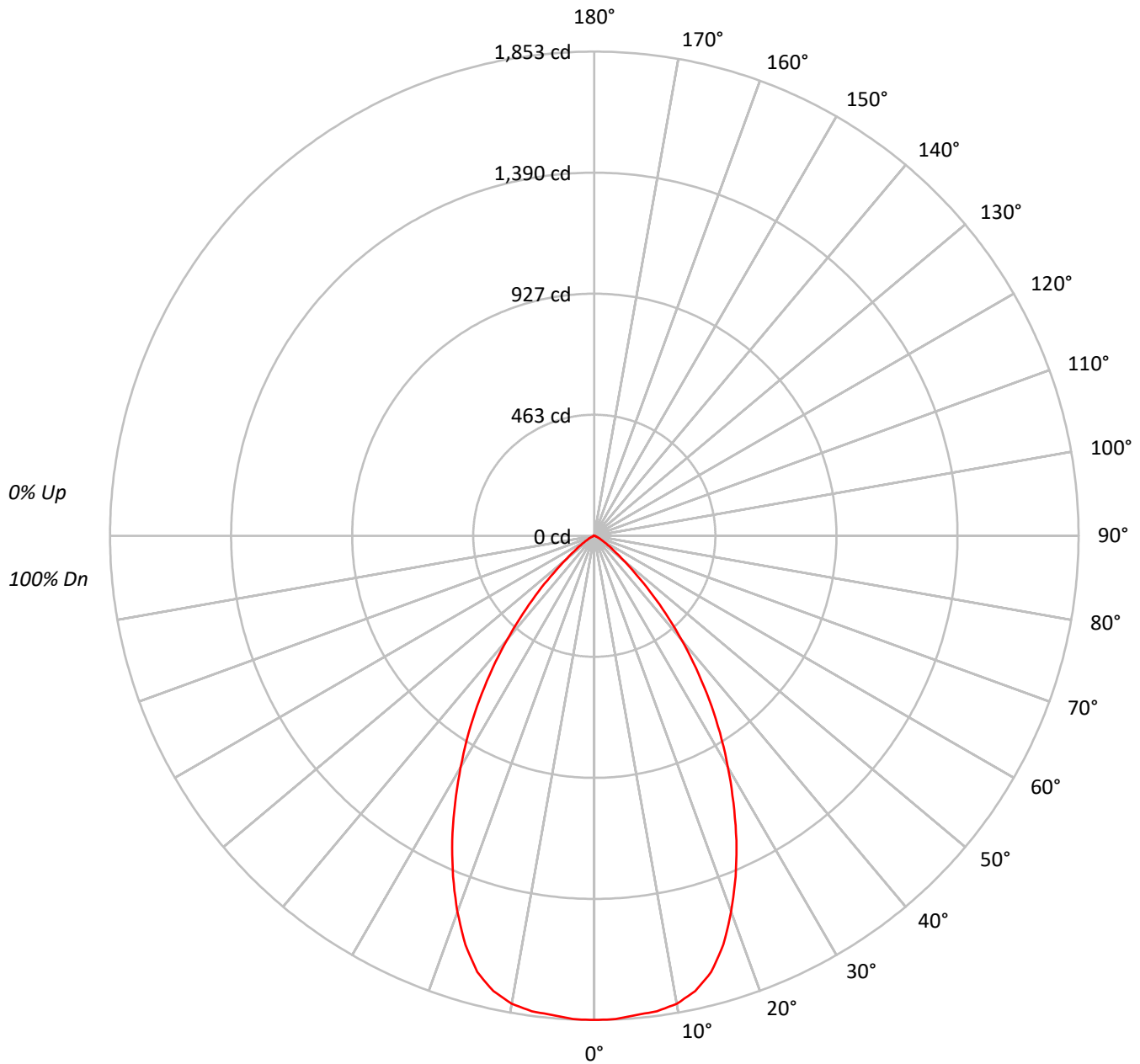
Downlight



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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°	108211
5°	107938
10°	107846
15°	104518
20°	95155
25°	82917
30°	68970
35°	54643
40°	39439
45°	24919
50°	12993
55°	6904
60°	3633
65°	1990
70°	837
75°	925
80°	639
85°	536

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 24919 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.2	8.6
10°-20°	479.8	23.5
20°-30°	586.5	28.7
30°-40°	475.8	23.3
40°-50°	237.1	11.6
50°-60°	66.1	3.2
60°-70°	15.0	0.7
70°-80°	3.9	0.2
80°-90°	1.0	0.1
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°	1241.5	60.8
0°-40°	1717.4	84.2
0°-60°	2020.6	99.0
0°-90°	2040.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2040.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1853	
5°	1841	175
15°	1729	480
25°	1287	586
35°	766	476
45°	302	237
55°	68	66
65°	14	15
75°	4	4
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1852.8
2.5°	1851.4
5°	1841.1
7.5°	1835.1
10°	1818.5
12.5°	1784.7
15°	1728.6
17.5°	1641.0
20°	1531.0
22.5°	1412.3
25°	1286.7
27.5°	1152.5
30°	1022.7
32.5°	894.4
35°	766.4
37.5°	638.7
40°	517.3
42.5°	403.5
45°	301.7
47.5°	210.2
50°	143.0
52.5°	98.5
55°	67.8
57.5°	45.7
60°	31.1
62.5°	21.5
65°	14.4
67.5°	7.3
70°	4.9
72.5°	4.6
75°	4.1
77.5°	2.8
80°	1.9
82.5°	1.4
85°	0.8
87.5°	0.6
90°	0.0



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— 0°-180°







(END OF REPORT)