

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: P780644

Luminaire Tested: LER4D25D010-EC4DR6520359040-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P780644
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-EC4DR6520359040-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2213.8 lumens
Efficiency: N/A
Efficacy: 88.2 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



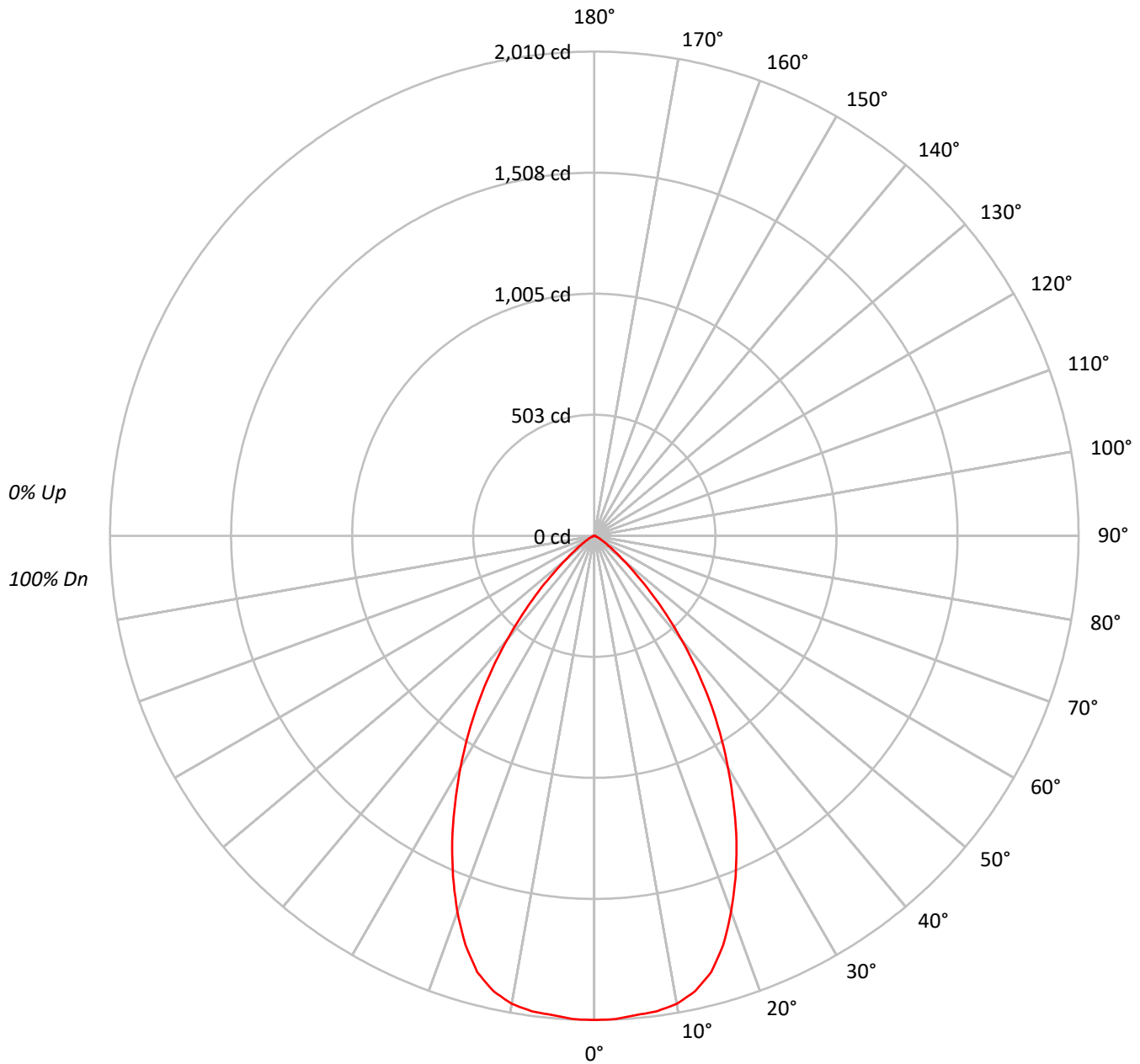
Downlight



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	117392
5°	117101
10°	116997
15°	113388
20°	103228
25°	89954
30°	74824
35°	59284
40°	42786
45°	27034
50°	14092
55°	7494
60°	3936
65°	2156
70°	905
75°	993
80°	706
85°	603

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 27034 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.1	8.6
10°-20°	520.5	23.5
20°-30°	636.3	28.7
30°-40°	516.2	23.3
40°-50°	257.2	11.6
50°-60°	71.8	3.2
60°-70°	16.3	0.7
70°-80°	4.2	0.2
80°-90°	1.1	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°	1346.9	60.8
0°-40°	1863.1	84.2
0°-60°	2192.1	99.0
0°-90°	2213.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2213.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2010	
5°	1997	190
15°	1875	521
25°	1396	636
35°	832	516
45°	327	257
55°	74	72
65°	16	16
75°	4	4
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2010.0
2.5°	2008.5
5°	1997.4
7.5°	1990.8
10°	1972.8
12.5°	1936.2
15°	1875.3
17.5°	1780.2
20°	1660.9
22.5°	1532.1
25°	1395.9
27.5°	1250.4
30°	1109.5
32.5°	970.3
35°	831.5
37.5°	692.9
40°	561.2
42.5°	437.7
45°	327.3
47.5°	228.0
50°	155.1
52.5°	106.9
55°	73.6
57.5°	49.6
60°	33.7
62.5°	23.3
65°	15.6
67.5°	8.0
70°	5.3
72.5°	5.0
75°	4.4
77.5°	3.0
80°	2.1
82.5°	1.5
85°	0.9
87.5°	0.6
90°	0.0



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— 0°-180°







(END OF REPORT)