

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: P780266

Luminaire Tested: LER4D20D010-EC4DR4520359050-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P780266
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D20D010-EC4DR4520359050-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 45° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2237.8 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Spacing Criteria (0/90/45): 0.75 / 0.75 / 0.69
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 23.1
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



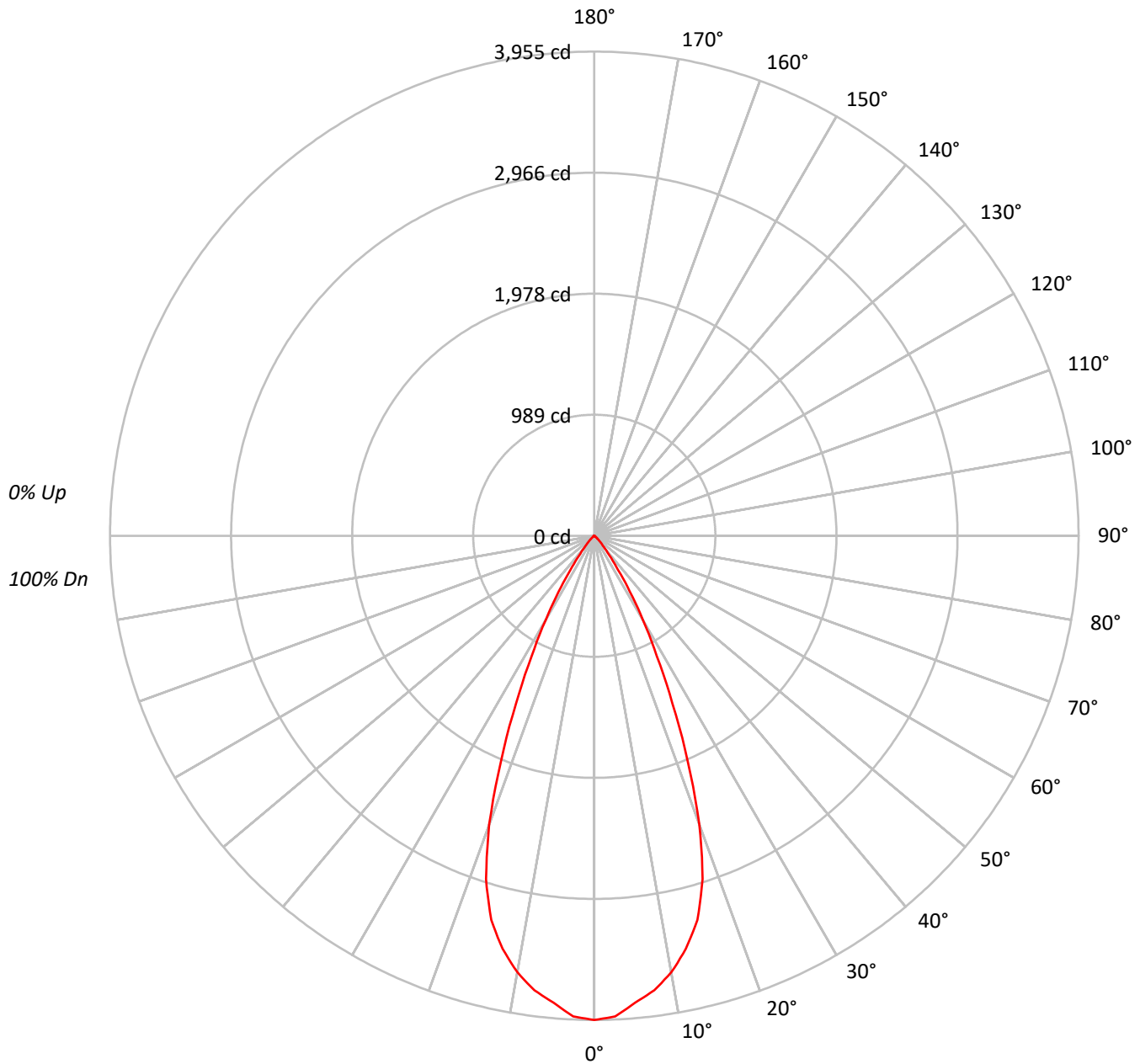
Downlight



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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	114	112	110	108	112	110	108	106	106	104	103		102	101	100		98
2	109	105	102	99	107	103	100	98	100	98	95		97	95	93		95
3	105	99	95	91	103	98	94	91	95	92	89		93	90	88		91
4	100	94	89	85	99	93	88	85	91	87	84		89	86	83		87
5	96	89	84	80	95	88	83	80	86	82	79		85	81	79		83
6	92	85	80	76	91	84	79	76	83	78	75		81	77	75		80
7	89	81	75	72	87	80	75	72	79	74	71		78	74	71		77
8	85	77	72	68	84	76	71	68	75	71	68		74	70	67		73
9	82	73	68	65	81	73	68	65	72	68	65		71	67	64		71
10	79	70	65	62	78	70	65	62	69	65	62		68	64	61		68

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	432170
5°	419870
10°	401692
15°	367635
20°	291670
25°	182088
30°	100363
35°	45070
40°	17743
45°	8359
50°	3961
55°	2076
60°	1005
65°	233
70°	96
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8359 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.7	16.1
10°-20°	885.2	39.6
20°-30°	701.0	31.3
30°-40°	233.5	10.4
40°-50°	46.3	2.1
50°-60°	10.5	0.5
60°-70°	1.5	0.1
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°	1946.0	87.0
0°-40°	2179.4	97.4
0°-60°	2236.2	99.9
0°-90°	2237.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2237.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3955	
5°	3828	360
15°	3250	885
25°	1510	701
35°	338	233
45°	54	46
55°	11	11
65°	1	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3955.4
2.5°	3929.6
5°	3828.2
7.5°	3744.5
10°	3620.6
12.5°	3455.8
15°	3250.1
17.5°	2940.9
20°	2508.5
22.5°	1993.3
25°	1510.4
27.5°	1106.0
30°	795.5
32.5°	541.0
35°	337.9
37.5°	200.4
40°	124.4
42.5°	81.8
45°	54.1
47.5°	34.8
50°	23.3
52.5°	15.5
55°	10.9
57.5°	7.2
60°	4.6
62.5°	2.5
65°	0.9
67.5°	0.3
70°	0.3
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





— 0°-180°

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Scaled Data Report







(END OF REPORT)