

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: P780346

Luminaire Tested: LER4D20D010-EC4DR6520359027-4LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P780346
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: LER4D20D010-EC4DR6520359027-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1729.5 lumens
Efficiency: N/A
Efficacy: 74.9 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): 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



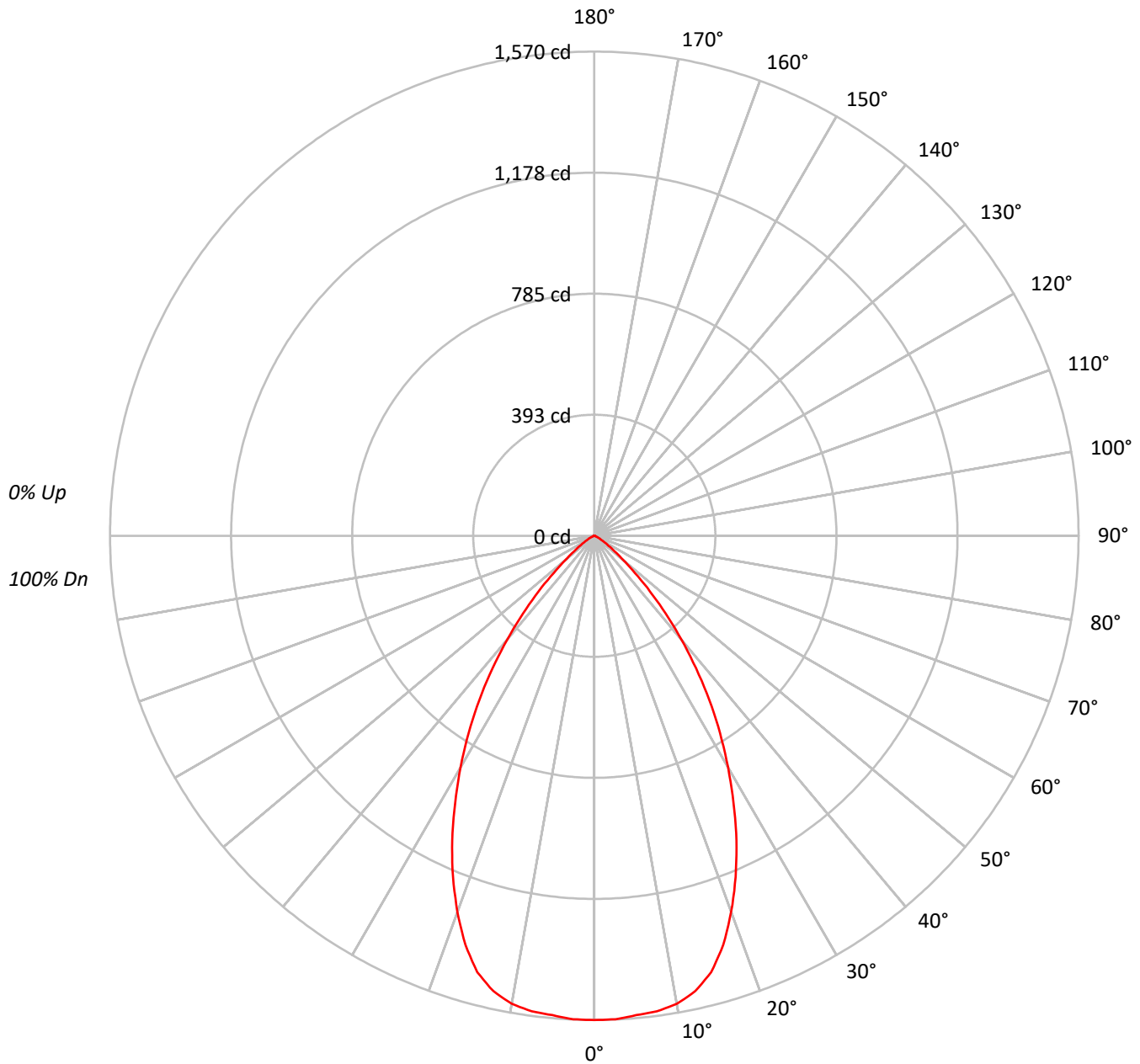
Downlight



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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				0			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	93						
2	107	102	97	94	105	100	96	92	97	93	90	94	91	88	91	89	87	85						
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	80	78						
4	95	87	81	76	93	86	80	76	84	79	75	82	77	74	80	76	73	72						
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66						
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61						
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56						
8	76	66	59	55	75	65	59	55	64	58	54	63	58	54	62	57	54	52						
9	72	61	55	51	71	61	55	51	60	54	51	59	54	50	58	54	50	49						
10	68	58	52	47	67	57	51	47	57	51	47	56	51	47	55	50	47	46						

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	91712
5°	91482
10°	91407
15°	88586
20°	80649
25°	70280
30°	58456
35°	46315
40°	33432
45°	21120
50°	11012
55°	5855
60°	3072
65°	1686
70°	700
75°	767
80°	538
85°	469

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 21120 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.5	8.6
10°-20°	406.7	23.5
20°-30°	497.1	28.7
30°-40°	403.3	23.3
40°-50°	201.0	11.6
50°-60°	56.1	3.2
60°-70°	12.7	0.7
70°-80°	3.3	0.2
80°-90°	0.8	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°	1052.3	60.8
0°-40°	1455.6	84.2
0°-60°	1712.7	99.0
0°-90°	1729.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1729.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1570	
5°	1560	149
15°	1465	407
25°	1091	497
35°	650	403
45°	256	201
55°	58	56
65°	12	13
75°	3	3
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1570.3
2.5°	1569.2
5°	1560.4
7.5°	1555.4
10°	1541.3
12.5°	1512.7
15°	1465.1
17.5°	1390.8
20°	1297.6
22.5°	1197.0
25°	1090.6
27.5°	976.8
30°	866.8
32.5°	758.1
35°	649.6
37.5°	541.4
40°	438.5
42.5°	342.0
45°	255.7
47.5°	178.1
50°	121.2
52.5°	83.5
55°	57.5
57.5°	38.8
60°	26.3
62.5°	18.2
65°	12.2
67.5°	6.2
70°	4.1
72.5°	3.9
75°	3.4
77.5°	2.3
80°	1.6
82.5°	1.1
85°	0.7
87.5°	0.5
90°	0.0



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— 0°-180°







(END OF REPORT)