

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: P780327

Luminaire Tested: LER4D20D010-EC4DR6020359030-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P780327
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-60)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D20D010-EC4DR6020359030-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1849.8 lumens
Efficiency: N/A
Efficacy: 80.1 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.92
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



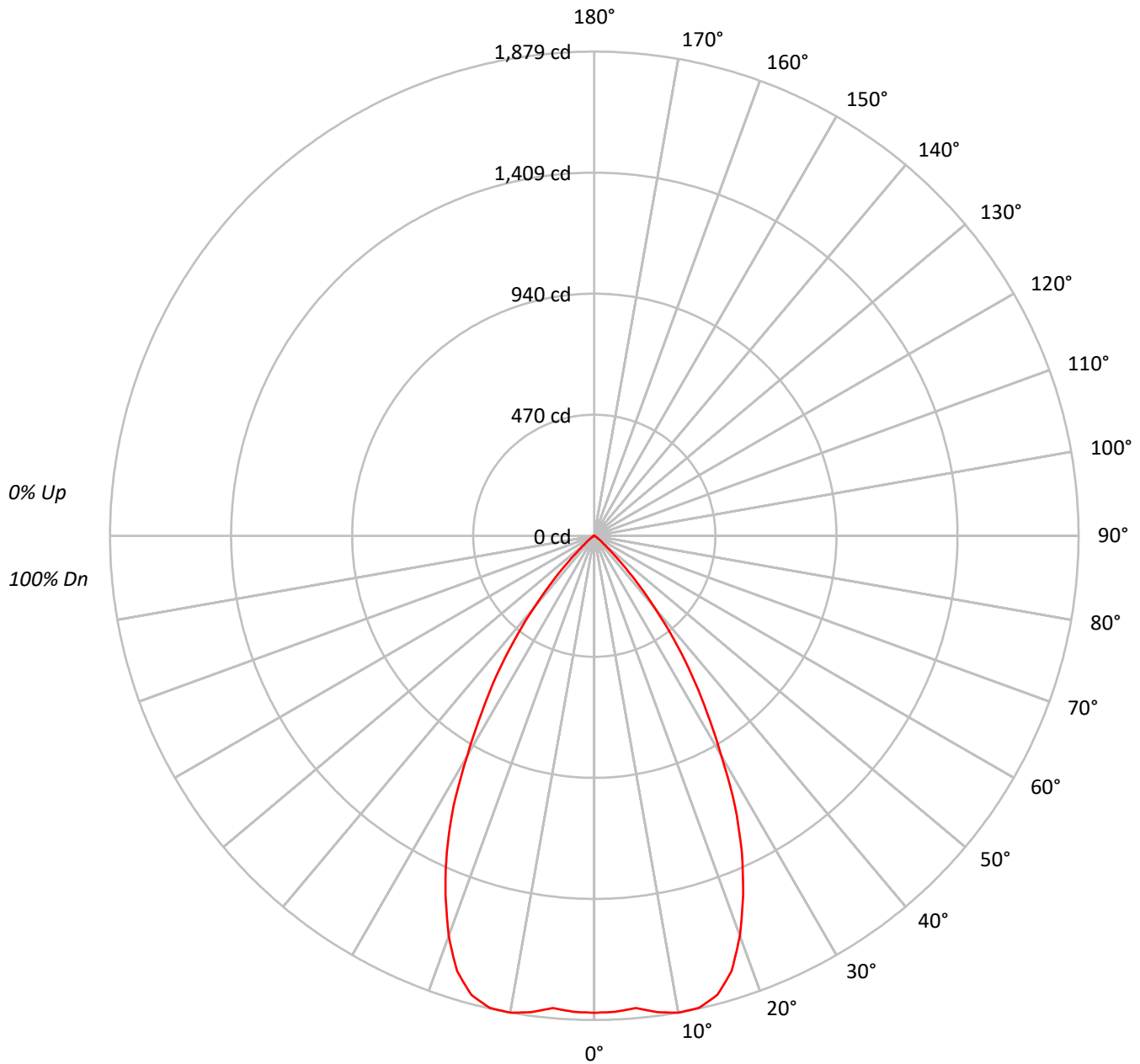
Downlight



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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					0
RW	70	50	30	10	70	50	30	10	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	100		
1	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94		
2	108	103	99	96	106	101	98	95	98	95	92	95	93	90	92	90	89	87		
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81		
4	97	90	84	80	95	88	83	79	86	82	78	84	81	78	82	79	77	75		
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70		
6	87	79	73	68	86	78	72	68	76	71	68	75	70	67	74	70	67	65		
7	83	74	68	63	82	73	67	63	72	67	63	71	66	63	69	65	62	61		
8	79	69	63	59	78	69	63	59	68	63	59	67	62	59	66	61	58	57		
9	75	65	59	55	74	65	59	55	64	59	55	63	58	55	62	58	55	53		
10	72	62	56	52	71	61	56	52	61	55	52	60	55	52	59	55	52	50		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	202274
5°	201775
10°	208468
15°	208697
20°	192013
25°	163317
30°	124448
35°	88006
40°	51675
45°	20844
50°	6969
55°	3353
60°	1377
65°	207
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 20844 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.5	9.6
10°-20°	511.1	27.6
20°-30°	611.7	33.1
30°-40°	409.1	22.1
40°-50°	121.3	6.6
50°-60°	17.4	0.9
60°-70°	1.7	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°	1300.3	70.3
0°-40°	1709.4	92.4
0°-60°	1848.2	99.9
0°-90°	1849.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1849.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1851	
5°	1840	177
15°	1845	511
25°	1355	612
35°	660	409
45°	135	121
55°	18	17
65°	1	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1851.3
2.5°	1848.9
5°	1839.7
7.5°	1864.6
10°	1879.0
12.5°	1876.4
15°	1845.0
17.5°	1770.6
20°	1651.4
22.5°	1508.4
25°	1354.7
27.5°	1181.7
30°	986.4
32.5°	812.0
35°	659.8
37.5°	507.2
40°	362.3
42.5°	238.9
45°	134.9
47.5°	69.0
50°	41.0
52.5°	26.5
55°	17.6
57.5°	11.3
60°	6.3
62.5°	2.6
65°	0.8
67.5°	0.3
70°	0.0
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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— 0°-180°







(END OF REPORT)