

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: P780324

Luminaire Tested: LER4D20D010-EC4DR6020359030-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P780324
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-EC4DR6020359030-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1824.0 lumens
Efficiency: N/A
Efficacy: 79.0 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



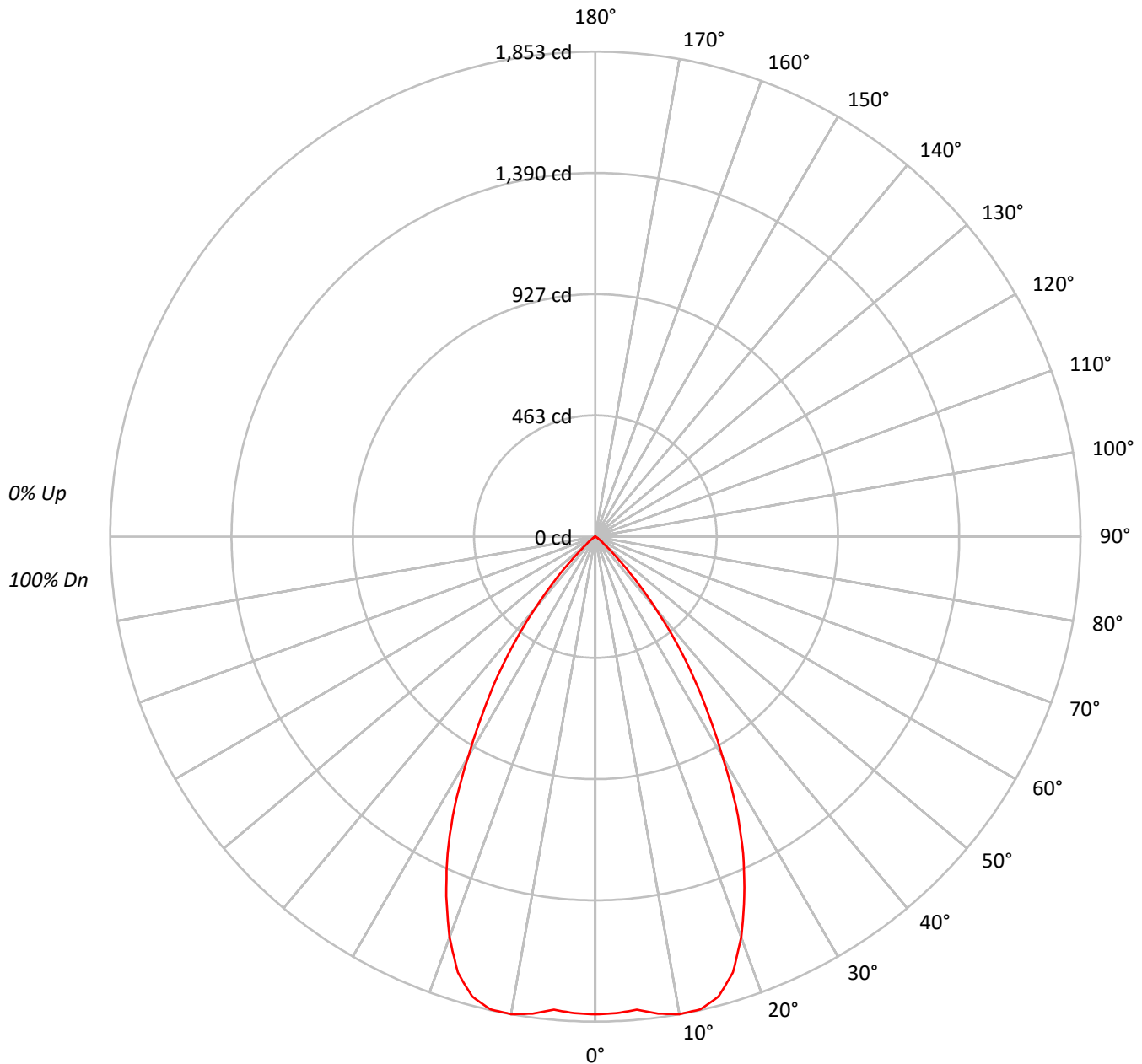
Downlight



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	114	111	108	106	111	109	106	104		105	103	101		101	99	98		97	96	95
2	108	103	99	96	106	101	98	95		98	95	92		95	93	90		92	90	89
3	102	96	91	87	100	95	90	86		92	88	85		90	86	84		87	85	82
4	97	90	84	80	95	88	83	79		86	82	78		84	81	78		82	79	77
5	92	84	78	74	91	83	77	73		81	76	73		79	75	72		78	74	71
6	87	79	73	68	86	78	72	68		76	71	68		75	70	67		74	70	67
7	83	74	68	63	82	73	67	63		72	67	63		71	66	63		69	65	62
8	79	69	63	59	78	69	63	59		68	63	59		67	62	59		66	61	58
9	75	65	59	55	74	65	59	55		64	59	55		63	58	55		62	58	55
10	72	62	56	52	71	61	56	52		61	55	52		60	55	52		59	55	52

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	199434
5°	198956
10°	205561
15°	205768
20°	189327
25°	161039
30°	122707
35°	86765
40°	50947
45°	20551
50°	6867
55°	3315
60°	1355
65°	207
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 20551 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.0	9.6
10°-20°	504.0	27.6
20°-30°	603.2	33.1
30°-40°	403.4	22.1
40°-50°	119.6	6.6
50°-60°	17.2	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°	1282.1	70.3
0°-40°	1685.5	92.4
0°-60°	1822.3	99.9
0°-90°	1824.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1824.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1825	
5°	1814	175
15°	1819	504
25°	1336	603
35°	650	403
45°	133	120
55°	17	17
65°	1	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1825.3
2.5°	1823.0
5°	1814.0
7.5°	1838.5
10°	1852.8
12.5°	1850.2
15°	1819.1
17.5°	1745.8
20°	1628.3
22.5°	1487.3
25°	1335.8
27.5°	1165.2
30°	972.6
32.5°	800.7
35°	650.5
37.5°	500.1
40°	357.2
42.5°	235.6
45°	133.0
47.5°	68.1
50°	40.4
52.5°	26.1
55°	17.4
57.5°	11.1
60°	6.2
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)