

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: P780356

Luminaire Tested: LER4D20D010-EC4DR6520359040-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P780356
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-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: 1713.1 lumens
Efficiency: N/A
Efficacy: 74.2 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): 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



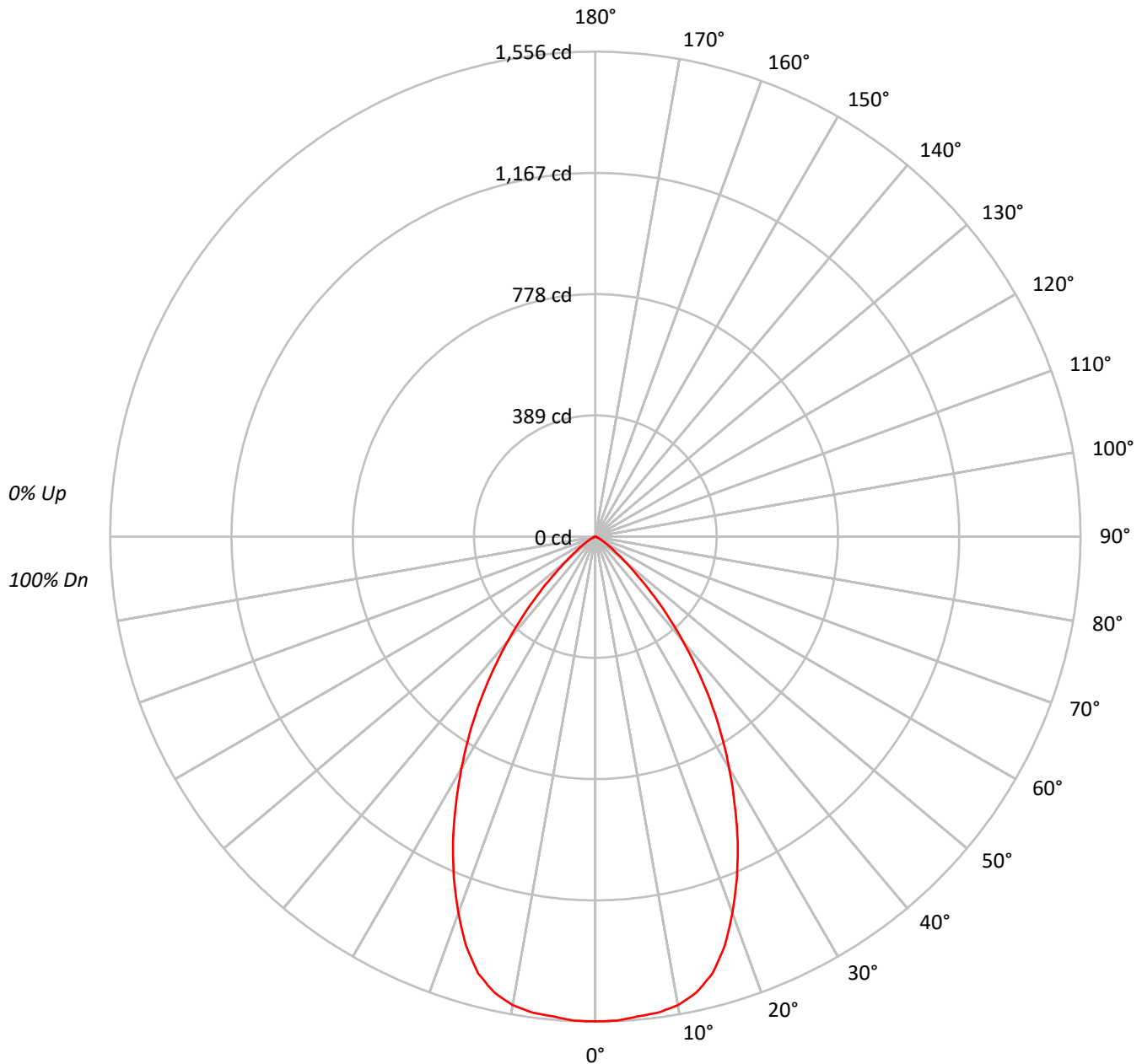
Downlight



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	90847
5°	90614
10°	90541
15°	87752
20°	79884
25°	69616
30°	57903
35°	45880
40°	33111
45°	20913
50°	10903
55°	5794
60°	3049
65°	1672
70°	700
75°	767
80°	538
85°	469

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 20913 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.1	8.6
10°-20°	402.8	23.5
20°-30°	492.4	28.7
30°-40°	399.5	23.3
40°-50°	199.1	11.6
50°-60°	55.5	3.2
60°-70°	12.6	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°	1042.3	60.8
0°-40°	1441.8	84.2
0°-60°	1696.4	99.0
0°-90°	1713.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1713.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1556	
5°	1546	147
15°	1451	403
25°	1080	492
35°	644	400
45°	253	199
55°	57	56
65°	12	13
75°	3	3
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1555.5
2.5°	1554.4
5°	1545.6
7.5°	1540.6
10°	1526.7
12.5°	1498.3
15°	1451.3
17.5°	1377.7
20°	1285.3
22.5°	1185.7
25°	1080.3
27.5°	967.6
30°	858.6
32.5°	750.9
35°	643.5
37.5°	536.2
40°	434.3
42.5°	338.7
45°	253.2
47.5°	176.5
50°	120.0
52.5°	82.7
55°	56.9
57.5°	38.4
60°	26.1
62.5°	18.0
65°	12.1
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)