

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: P778236

Luminaire Tested: LERS4D15D010-EC4DR1515309030-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P778236
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LERS4D15D010-EC4DR1515309030-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1339.9 lumens
Efficiency: N/A
Efficacy: 84.8 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.23
Luminous Opening: Vertical Cylinder (Dia: 0.35' x H: 0.35')
CIE Type: Direct

Input Watts (W): 15.8
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



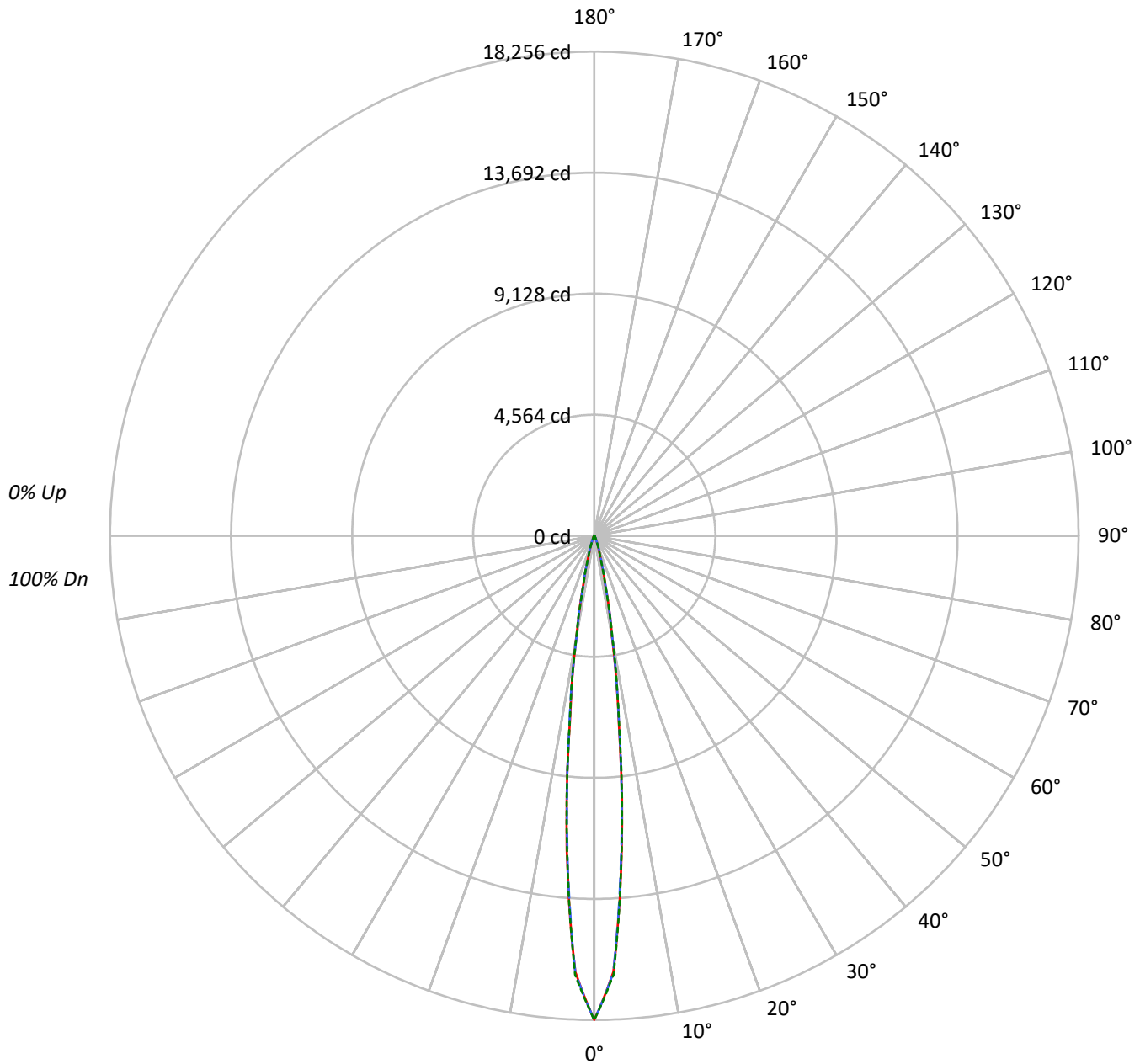
Downlight



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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	116	114	112	111	113	112	110	109		108	107	106		104	103	103		101	100	100
2	113	110	107	105	111	108	106	104		105	103	102		102	101	100		100	98	98
3	110	106	103	101	108	105	102	100		103	100	99		100	99	97		98	97	96
4	108	103	100	98	106	102	99	97		100	98	96		99	97	95		97	95	94
5	106	101	98	95	104	100	97	95		98	96	94		97	95	93		96	94	92
6	104	99	95	93	102	98	95	93		97	94	92		96	93	92		95	93	91
7	102	97	94	91	101	96	93	91		95	93	91		94	92	90		93	91	90
8	100	95	92	90	99	95	92	90		94	91	89		93	91	89		92	90	89
9	99	93	90	88	98	93	90	88		92	90	88		92	89	88		91	89	88
10	97	92	89	87	96	92	89	87		91	89	87		91	88	87		90	88	86

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2054119	2054119	2054119
5°	1207097	1191467	1200888
10°	360261	362789	368341
15°	89610	91356	88533
20°	26813	31052	27378
25°	9449	12043	9574
30°	3474	4575	3527
35°	1743	1961	1685
40°	1101	1207	1101
45°	812	868	812
50°	647	647	647
55°	536	536	536
60°	435	435	435
65°	328	328	328
70°	285	285	285
75°	174	174	234
80°	118	118	118
85°	66	66	66

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 868 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	869.0	64.9
10°-20°	357.4	26.7
20°-30°	71.0	5.3
30°-40°	17.7	1.3
40°-50°	9.3	0.7
50°-60°	6.9	0.5
60°-70°	4.9	0.4
70°-80°	2.8	0.2
80°-90°	0.8	0.1
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°	1297.4	96.8
0°-40°	1315.2	98.2
0°-60°	1331.4	99.4
0°-90°	1339.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1339.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18256	18256	18256	18256	18256	
5°	11878	11755	11724	11805	11816	867
15°	1032	1051	1052	1033	1019	354
25°	121	138	155	137	123	64
35°	24	26	27	26	23	16
45°	12	12	12	12	12	9
55°	8	8	8	8	8	7
65°	5	5	5	5	5	5
75°	2	2	2	2	3	3
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	18255.6	18255.6	18255.6	18255.6	18255.6
2.5°	16467.3	16481.2	16486.6	16502.8	16563.1
5°	11877.5	11755.4	11723.7	11804.8	11816.4
7.5°	7035.8	7060.5	7150.9	7171.0	7098.4
10°	3861.0	3892.7	3888.1	3915.9	3947.6
12.5°	1974.6	1949.8	1942.1	1973.8	1929.7
15°	1031.7	1051.0	1051.8	1033.3	1019.3
17.5°	554.9	577.3	614.4	584.3	537.9
20°	327.7	347.8	379.5	354.7	334.6
22.5°	202.5	218.7	241.1	221.8	205.6
25°	121.3	137.6	154.6	136.8	122.9
27.5°	71.9	85.8	96.6	85.0	71.1
30°	46.4	54.1	61.1	53.3	47.1
32.5°	32.5	35.5	38.6	35.5	32.5
35°	24.0	25.5	27.0	25.5	23.2
37.5°	18.5	20.1	20.9	19.3	17.8
40°	15.5	16.2	17.0	16.2	15.5
42.5°	13.1	13.9	13.9	13.9	13.1
45°	11.6	11.6	12.4	11.6	11.6
47.5°	10.0	10.0	10.8	10.0	10.0
50°	9.3	9.3	9.3	9.3	9.3
52.5°	8.5	8.5	8.5	8.5	8.5
55°	7.7	7.7	7.7	7.7	7.7
57.5°	7.0	7.0	7.0	7.0	7.0
60°	6.2	6.2	6.2	6.2	6.2
62.5°	5.4	5.4	5.4	5.4	5.4
65°	4.6	4.6	4.6	4.6	4.6
67.5°	4.6	4.6	4.6	4.6	4.6
70°	3.9	3.9	3.9	3.9	3.9
72.5°	3.1	3.1	3.1	3.1	3.1
75°	2.3	2.3	2.3	2.3	3.1
77.5°	2.3	2.3	2.3	2.3	2.3
80°	1.5	1.5	1.5	1.5	1.5
82.5°	1.5	1.5	1.5	1.5	1.5
85°	0.8	0.8	0.8	0.8	0.8
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)