

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: P741875

Luminaire Tested: LD4D10D010-EU4DR150210IC9024-4LBSQW1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P741875
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: LD4D10D010-EU4DR150210IC9024-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 799.8 lumens
Efficiency: N/A
Efficacy: 68.4 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): 11.7
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



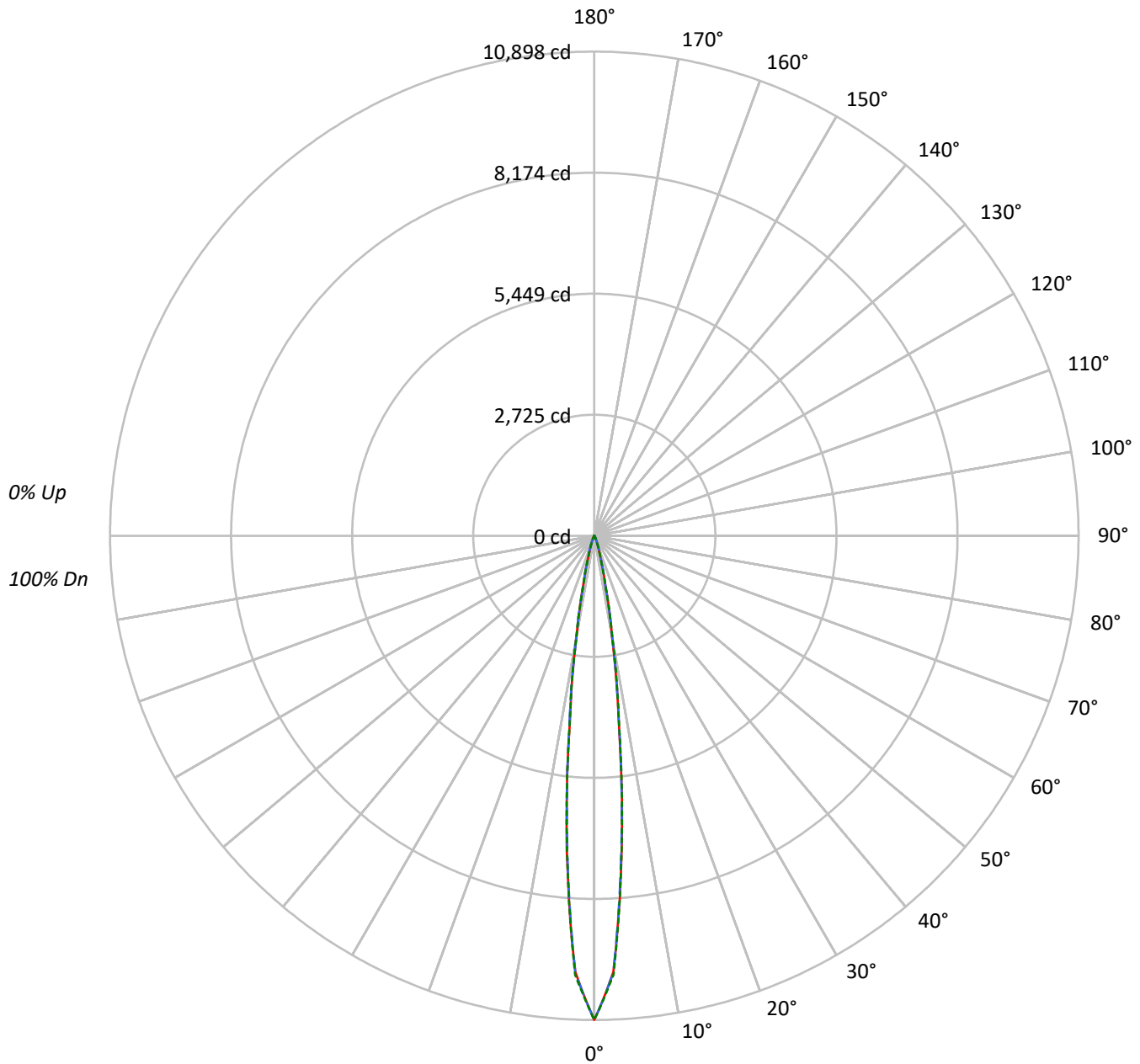
Downlight



TEST NUMBER: P741875

CATALOG NUMBER: LD4D10D010-EU4DR150210IC9024-4LBSQW1MW

Luminous Intensity Polar Plot



TEST NUMBER: P741875

CATALOG NUMBER: LD4D10D010-EU4DR150210IC9024-4LBSQW1MW

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	116	114	112	111	113	112	110	109	108	107	106		104	103	103		101
2	113	110	107	105	111	108	106	104	105	103	102		102	101	100		100
3	110	106	103	101	108	105	102	100	103	100	99		100	99	97		98
4	108	103	100	98	106	102	99	97	100	98	96		99	97	95		97
5	106	101	98	95	104	100	97	95	98	96	94		97	95	93		96
6	104	99	95	93	102	98	95	93	97	94	92		96	93	92		95
7	102	97	94	91	101	96	93	91	95	93	91		94	92	90		93
8	100	95	92	90	99	95	92	90	94	91	89		93	91	89		92
9	99	93	90	88	98	93	90	88	92	90	88		92	89	88		91
10	97	92	89	87	96	92	89	87	91	89	87		91	88	87		90

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1226186	1226186	1226186
5°	720559	711230	716860
10°	215055	216558	219879
15°	53495	54537	52852
20°	16005	18533	16348
25°	5640	7190	5718
30°	2074	2726	2104
35°	1038	1169	1002
40°	653	717	653
45°	483	518	483
50°	382	382	382
55°	320	320	320
60°	260	260	260
65°	200	200	200
70°	168	168	168
75°	106	106	136
80°	71	71	71
85°	42	42	42

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 518 cd/sqm



TEST NUMBER: P741875

CATALOG NUMBER: LD4D10D010-EU4DR150210IC9024-4LBSQW1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	518.7	64.9
10°-20°	213.4	26.7
20°-30°	42.4	5.3
30°-40°	10.6	1.3
40°-50°	5.6	0.7
50°-60°	4.1	0.5
60°-70°	2.9	0.4
70°-80°	1.6	0.2
80°-90°	0.5	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°	774.5	96.8
0°-40°	785.1	98.2
0°-60°	794.8	99.4
0°-90°	799.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	799.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10898	10898	10898	10898	10898	
5°	7090	7017	6998	7047	7054	518
15°	616	627	628	617	608	211
25°	72	82	92	82	73	38
35°	14	15	16	15	14	10
45°	7	7	7	7	7	5
55°	5	5	5	5	5	4
65°	3	3	3	3	3	3
75°	1	1	1	1	2	2
85°	0	0	0	0	0	1
90°	0	0	0	0	0	



TEST NUMBER: P741875

CATALOG NUMBER: LD4D10D010-EU4DR150210IC9024-4LBSQW1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10897.5	10897.5	10897.5	10897.5	10897.5
2.5°	9830.0	9838.3	9841.5	9851.2	9887.2
5°	7090.1	7017.2	6998.3	7046.8	7053.7
7.5°	4199.9	4214.7	4268.7	4280.7	4237.3
10°	2304.8	2323.7	2320.9	2337.5	2356.5
12.5°	1178.7	1163.9	1159.3	1178.2	1151.9
15°	615.9	627.4	627.9	616.8	608.5
17.5°	331.2	344.6	366.8	348.8	321.1
20°	195.6	207.6	226.5	211.7	199.8
22.5°	120.9	130.6	143.9	132.4	122.7
25°	72.4	82.1	92.3	81.7	73.4
27.5°	42.9	51.2	57.7	50.7	42.4
30°	27.7	32.3	36.4	31.8	28.1
32.5°	19.4	21.2	23.1	21.2	19.4
35°	14.3	15.2	16.1	15.2	13.8
37.5°	11.1	12.0	12.5	11.5	10.6
40°	9.2	9.7	10.1	9.7	9.2
42.5°	7.8	8.3	8.3	8.3	7.8
45°	6.9	6.9	7.4	6.9	6.9
47.5°	6.0	6.0	6.5	6.0	6.0
50°	5.5	5.5	5.5	5.5	5.5
52.5°	5.1	5.1	5.1	5.1	5.1
55°	4.6	4.6	4.6	4.6	4.6
57.5°	4.2	4.2	4.2	4.2	4.2
60°	3.7	3.7	3.7	3.7	3.7
62.5°	3.2	3.2	3.2	3.2	3.2
65°	2.8	2.8	2.8	2.8	2.8
67.5°	2.8	2.8	2.8	2.8	2.8
70°	2.3	2.3	2.3	2.3	2.3
72.5°	1.8	1.8	1.8	1.8	1.8
75°	1.4	1.4	1.4	1.4	1.8
77.5°	1.4	1.4	1.4	1.4	1.4
80°	0.9	0.9	0.9	0.9	0.9
82.5°	0.9	0.9	0.9	0.9	0.9
85°	0.5	0.5	0.5	0.5	0.5
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)