

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: P739743

Luminaire Tested: LD4D02D010-EU4DR700210IC9040-4LBSQW1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P739743
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-73)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D02D010-EU4DR700210IC9040-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 313.9 lumens
Efficiency: N/A
Efficacy: 61.6 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.82
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 5.1
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



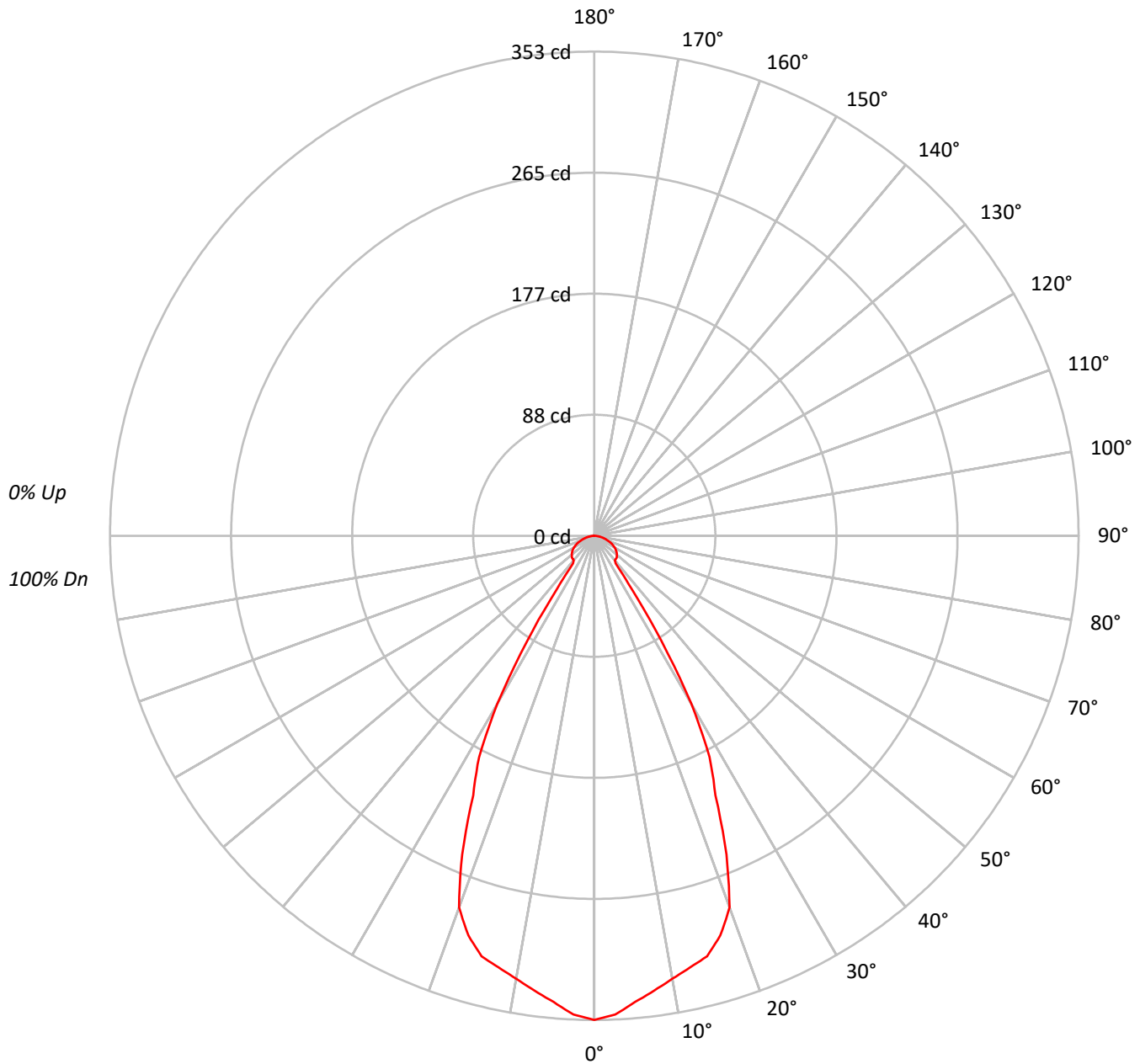
Downlight



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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				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	112	109	106	103	110	107	104	102	103	101	99		99	97	96		95
2	106	100	95	91	103	98	94	90	95	91	88		92	89	86		89
3	100	92	87	82	98	91	86	81	88	84	80		86	82	79		83
4	94	86	80	75	92	85	79	74	82	77	73		80	76	73		78
5	89	80	74	69	88	79	73	69	77	72	68		75	71	67		74
6	85	75	68	64	83	74	68	64	73	67	63		71	66	63		70
7	80	70	64	59	79	70	64	59	68	63	59		67	62	59		66
8	77	66	60	56	75	66	60	56	65	59	55		64	59	55		63
9	73	63	57	52	72	62	56	52	61	56	52		60	55	52		60
10	70	59	53	49	69	59	53	49	58	53	49		57	52	49		57

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	38569
5°	37422
10°	36379
15°	35903
20°	33521
25°	25184
30°	17802
35°	6309
40°	3323
45°	3538
50°	3655
55°	3715
60°	3737
65°	3671
70°	3450
75°	3208
80°	2831
85°	2257

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 3742 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.2	10.3
10°-20°	88.3	28.1
20°-30°	97.2	31.0
30°-40°	37.2	11.8
40°-50°	17.5	5.6
50°-60°	17.4	5.5
60°-70°	13.9	4.4
70°-80°	8.0	2.6
80°-90°	2.2	0.7
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°	217.7	69.3
0°-40°	254.9	81.2
0°-60°	289.8	92.3
0°-90°	313.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	313.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	353	
5°	341	32
15°	317	88
25°	209	97
35°	47	37
45°	23	18
55°	20	17
65°	14	14
75°	8	8
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	353.0
2.5°	349.3
5°	341.2
7.5°	334.4
10°	327.9
12.5°	322.3
15°	317.4
17.5°	305.4
20°	288.3
22.5°	251.6
25°	208.9
27.5°	181.9
30°	141.1
32.5°	91.2
35°	47.3
37.5°	25.6
40°	23.3
42.5°	23.1
45°	22.9
47.5°	22.3
50°	21.5
52.5°	20.6
55°	19.5
57.5°	18.4
60°	17.1
62.5°	15.7
65°	14.2
67.5°	12.5
70°	10.8
72.5°	9.2
75°	7.6
77.5°	6.0
80°	4.5
82.5°	3.2
85°	1.8
87.5°	0.7
90°	0.0



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— 0°-180°







(END OF REPORT)