

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: P785087

Luminaire Tested: LER4DD45BD010-EC4DR7040509040-4LBDP1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P785087
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: LER4DD45BD010-EC4DR7040509040-4LBDP1MW
Description: 4 INCH ROUND 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: 3436.8 lumens
Efficiency: N/A
Efficacy: 88.8 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): 38.7
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

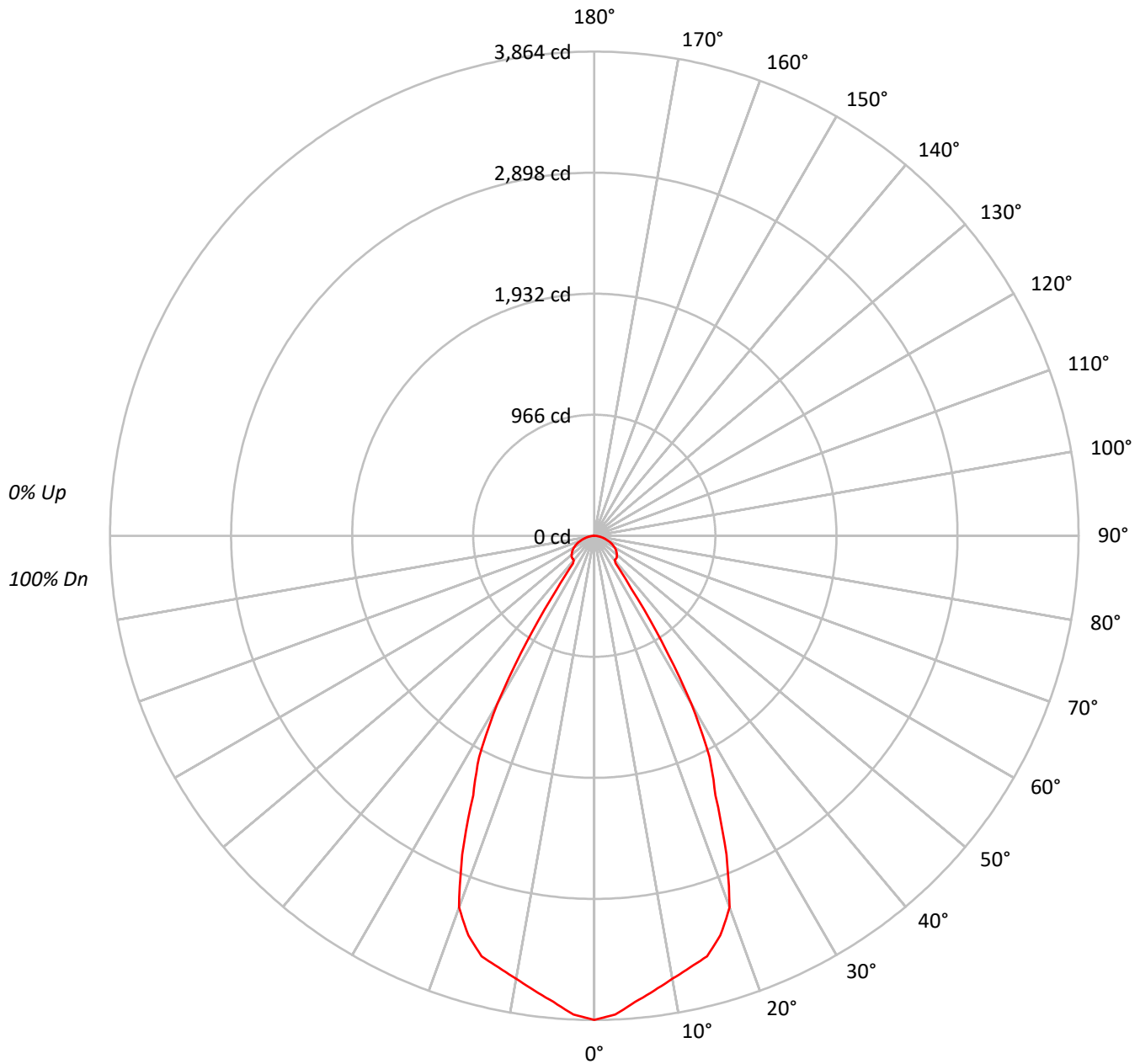


Downlight

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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	87	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°	422173
5°	409626
10°	398208
15°	392984
20°	366969
25°	275687
30°	194885
35°	69026
40°	36299
45°	38660
50°	40030
55°	40784
60°	41038
65°	40176
70°	37920
75°	35123
80°	31209
85°	25323

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 41057 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	352.3	10.3
10°-20°	966.3	28.1
20°-30°	1064.2	31.0
30°-40°	406.6	11.8
40°-50°	192.0	5.6
50°-60°	190.9	5.6
60°-70°	152.8	4.4
70°-80°	87.8	2.6
80°-90°	23.9	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°	2382.8	69.3
0°-40°	2789.4	81.2
0°-60°	3172.2	92.3
0°-90°	3436.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3436.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3864	
5°	3735	352
15°	3474	966
25°	2287	1064
35°	518	407
45°	250	192
55°	214	191
65°	155	153
75°	83	88
85°	20	24
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3863.9
2.5°	3823.5
5°	3734.8
7.5°	3660.8
10°	3589.2
12.5°	3528.6
15°	3474.2
17.5°	3342.7
20°	3156.1
22.5°	2753.5
25°	2286.8
27.5°	1990.7
30°	1544.7
32.5°	997.8
35°	517.5
37.5°	279.6
40°	254.5
42.5°	252.7
45°	250.2
47.5°	244.7
50°	235.5
52.5°	225.1
55°	214.1
57.5°	201.9
60°	187.8
62.5°	171.9
65°	155.4
67.5°	137.0
70°	118.7
72.5°	100.3
75°	83.2
77.5°	65.5
80°	49.6
82.5°	34.9
85°	20.2
87.5°	8.0
90°	0.0



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— 0°-180°







(END OF REPORT)