

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: P754278

Luminaire Tested: LD4D80BD010-EU4DR6070959035-4LBDP1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P754278
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-57)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D80BD010-EU4DR6070959035-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6984.5 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.83
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 78.9
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

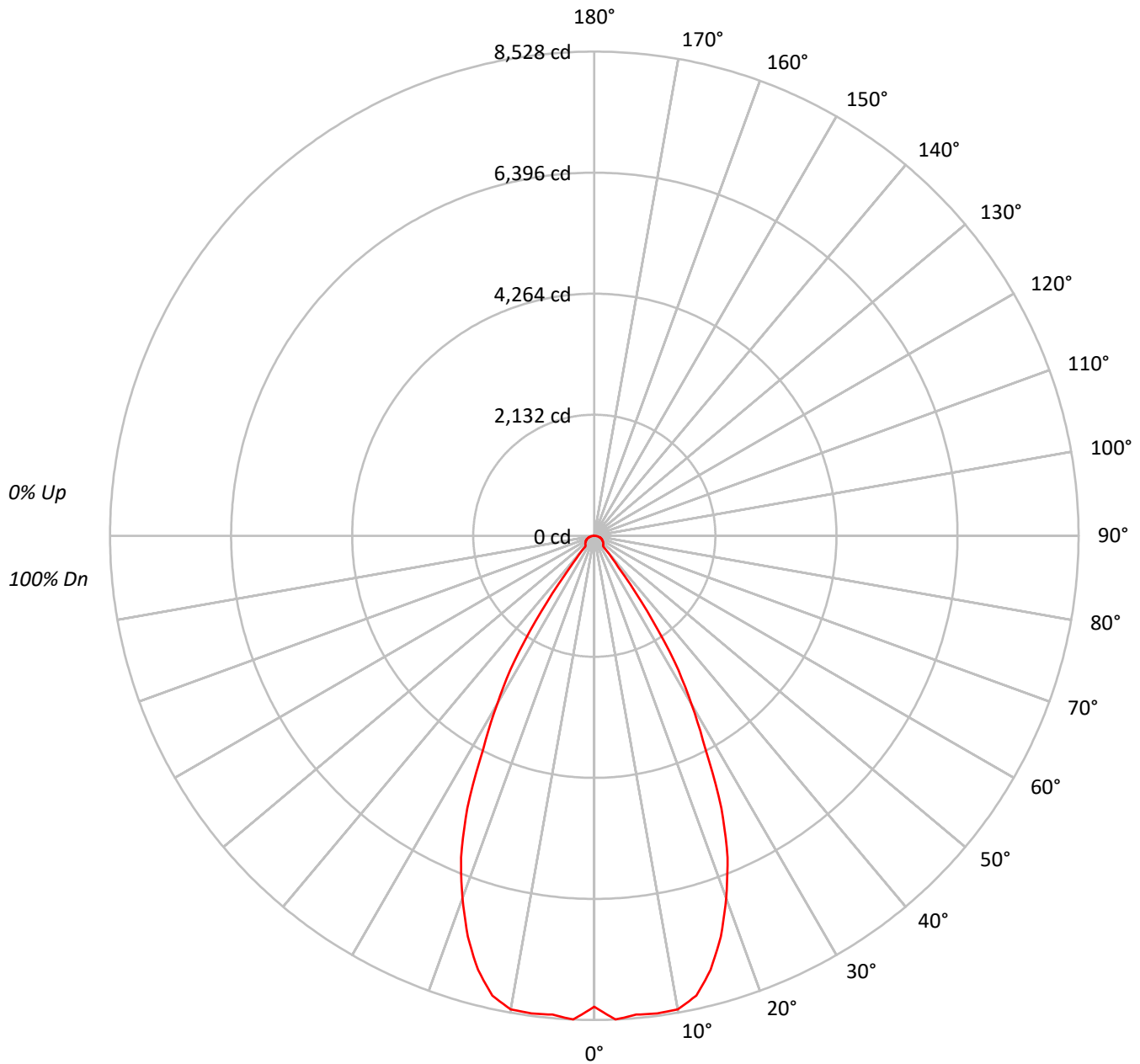


Downlight

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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	113	110	108	105	111	108	106	104	104	102	100		100	99	97		97
2	107	102	98	95	105	101	97	94	97	94	92		94	92	90		92
3	102	96	90	86	100	94	89	86	91	88	84		89	86	83		87
4	97	89	84	80	95	88	83	79	86	82	78		84	80	77		82
5	92	84	78	74	91	83	78	74	81	77	73		80	76	72		78
6	88	79	73	69	87	78	73	69	77	72	68		75	71	68		74
7	84	75	69	65	83	74	68	64	73	68	64		72	67	64		71
8	80	71	65	61	79	70	65	61	69	64	60		68	64	60		67
9	77	67	61	57	75	67	61	57	66	61	57		65	60	57		64
10	73	64	58	54	72	63	58	54	62	58	54		62	57	54		61

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	906318
5°	928601
10°	939815
15°	895306
20°	789376
25°	638476
30°	431870
35°	216414
40°	35101
45°	34365
50°	35050
55°	35584
60°	36559
65°	37410
70°	38271
75°	38753
80°	37375
85°	31090

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 75°

Luminance: 38753 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	809.2	11.6
10°-20°	2189.3	31.3
20°-30°	2355.5	33.7
30°-40°	1023.9	14.7
40°-50°	172.0	2.5
50°-60°	167.2	2.4
60°-70°	143.0	2.0
70°-80°	95.7	1.4
80°-90°	28.6	0.4
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°	5354.0	76.7
0°-40°	6377.9	91.3
0°-60°	6717.1	96.2
0°-90°	6984.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6984.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8295	
5°	8467	809
15°	7915	2189
25°	5296	2356
35°	1622	1024
45°	222	172
55°	187	167
65°	145	143
75°	92	96
85°	25	29
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	8295.0
2.5°	8528.1
5°	8466.6
7.5°	8486.0
10°	8470.9
12.5°	8296.0
15°	7915.0
17.5°	7403.3
20°	6789.0
22.5°	6131.6
25°	5296.1
27.5°	4236.0
30°	3423.1
32.5°	2638.3
35°	1622.5
37.5°	694.1
40°	246.1
42.5°	226.7
45°	222.4
47.5°	214.8
50°	206.2
52.5°	196.5
55°	186.8
57.5°	177.0
60°	167.3
62.5°	156.5
65°	144.7
67.5°	132.8
70°	119.8
72.5°	105.8
75°	91.8
77.5°	75.6
80°	59.4
82.5°	42.1
85°	24.8
87.5°	8.6
90°	0.0



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— 0°-180°







(END OF REPORT)