

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: P752705

Luminaire Tested: LD4D70BD010-EU4DR6070959030-4LBDP1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P752705
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: LD4D70BD010-EU4DR6070959030-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6160.1 lumens
Efficiency: N/A
Efficacy: 92.5 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): 66.6
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

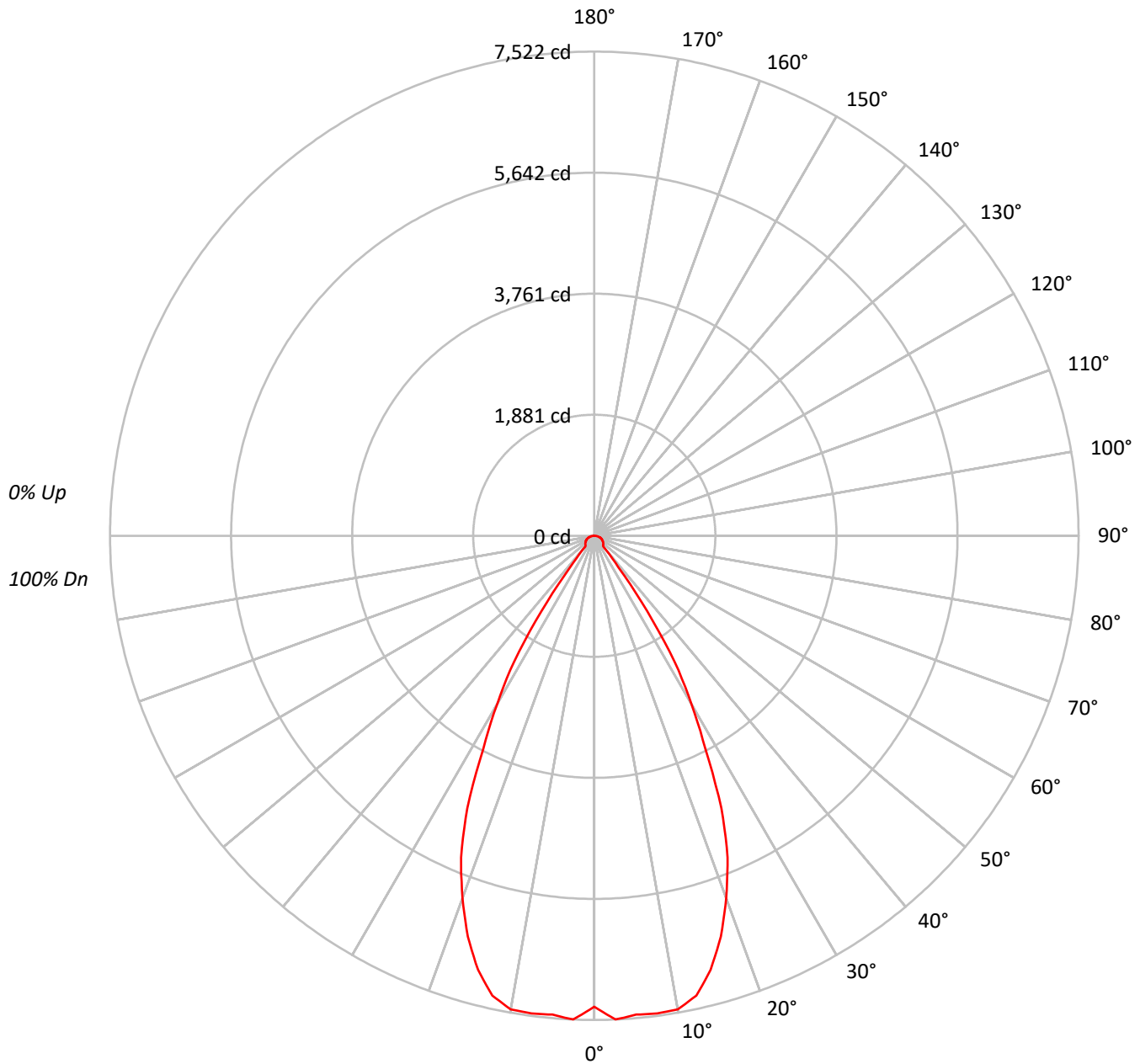


Downlight

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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°	799341
5°	818999
10°	828891
15°	789634
20°	696207
25°	563117
30°	380900
35°	190871
40°	30965
45°	30301
50°	30919
55°	31374
60°	32254
65°	32989
70°	33767
75°	34152
80°	32970
85°	27454

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 75°

Luminance: 34152 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	713.7	11.6
10°-20°	1930.9	31.3
20°-30°	2077.5	33.7
30°-40°	903.0	14.7
40°-50°	151.7	2.5
50°-60°	147.5	2.4
60°-70°	126.2	2.0
70°-80°	84.4	1.4
80°-90°	25.2	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°	4722.1	76.7
0°-40°	5625.2	91.3
0°-60°	5924.3	96.2
0°-90°	6160.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6160.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7316	
5°	7467	714
15°	6981	1931
25°	4671	2078
35°	1431	903
45°	196	152
55°	165	147
65°	128	126
75°	81	84
85°	22	25
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	7315.9
2.5°	7521.6
5°	7467.3
7.5°	7484.4
10°	7471.1
12.5°	7316.9
15°	6980.8
17.5°	6529.5
20°	5987.7
22.5°	5407.9
25°	4671.0
27.5°	3736.0
30°	3019.1
32.5°	2326.9
35°	1431.0
37.5°	612.2
40°	217.1
42.5°	199.9
45°	196.1
47.5°	189.5
50°	181.9
52.5°	173.3
55°	164.7
57.5°	156.1
60°	147.6
62.5°	138.1
65°	127.6
67.5°	117.1
70°	105.7
72.5°	93.3
75°	80.9
77.5°	66.6
80°	52.4
82.5°	37.1
85°	21.9
87.5°	7.6
90°	0.0



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— 0°-180°







(END OF REPORT)