

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: P748166

Luminaire Tested: LD4D40BD010-EU4DR7040509027-4LBDP1H

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P748166
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: LD4D40BD010-EU4DR7040509027-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3685.9 lumens
Efficiency: N/A
Efficacy: 104.7 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): 35.2
Input Voltage (V): NR
Input Current (A_{in}): 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

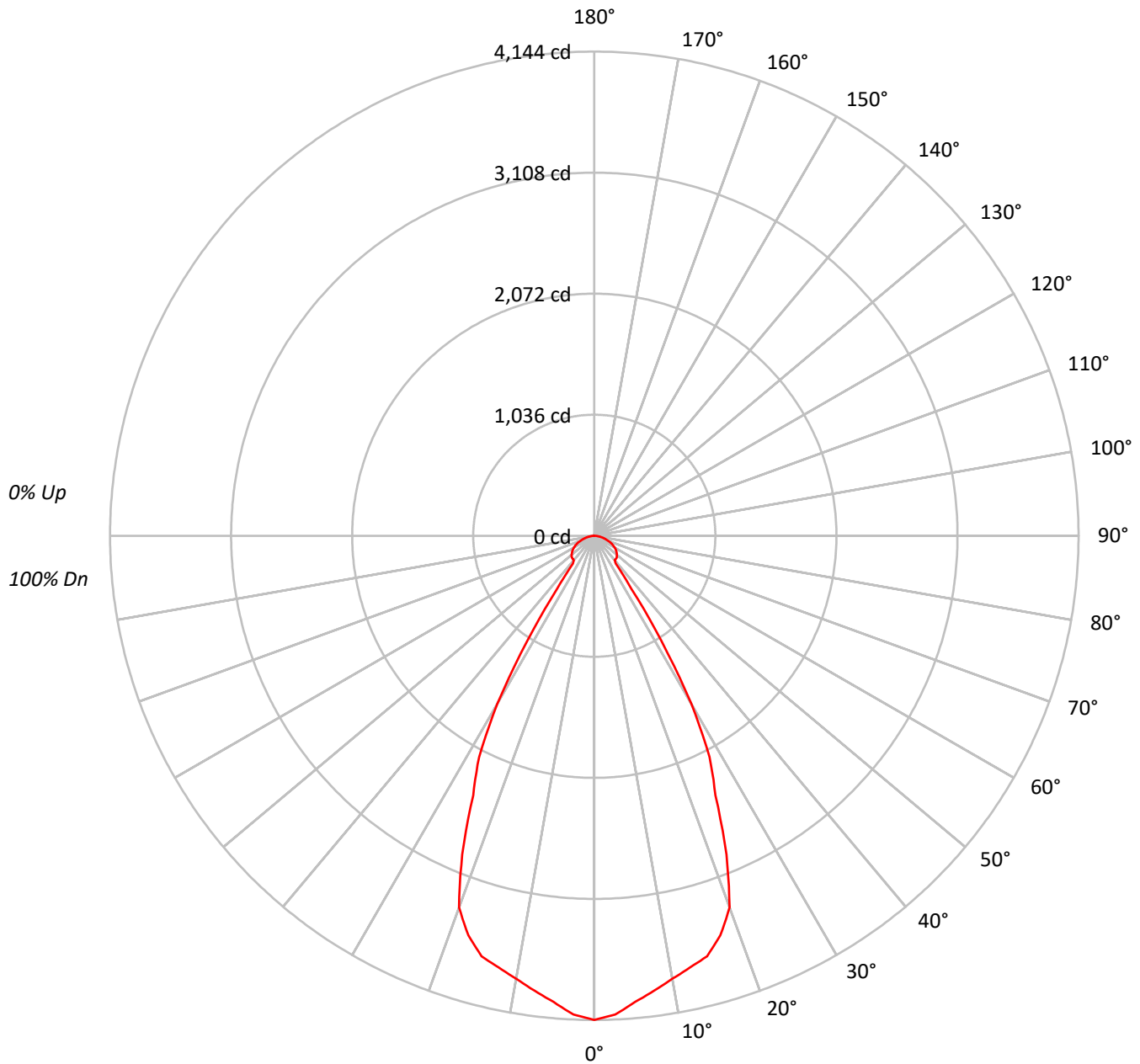


Downlight

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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				0			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91						
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83						
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76						
4	94	86	80	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70						
5	89	80	74	69	87	79	73	69	77	72	68	75	71	67	74	70	67	65						
6	85	75	68	64	83	74	68	64	73	67	63	71	66	63	70	66	62	61						
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57						
8	77	66	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53						
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50						
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48						

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	452787
5°	439327
10°	427088
15°	421478
20°	393572
25°	295675
30°	209015
35°	74041
40°	38924
45°	41473
50°	42937
55°	43737
60°	44010
65°	43097
70°	40667
75°	37656
80°	33411
85°	27204

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 44026 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	377.8	10.3
10°-20°	1036.3	28.1
20°-30°	1141.4	31.0
30°-40°	436.1	11.8
40°-50°	205.9	5.6
50°-60°	204.7	5.6
60°-70°	163.9	4.4
70°-80°	94.2	2.6
80°-90°	25.6	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°	2555.5	69.3
0°-40°	2991.6	81.2
0°-60°	3402.2	92.3
0°-90°	3685.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3685.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4144	
5°	4006	378
15°	3726	1036
25°	2453	1141
35°	555	436
45°	268	206
55°	230	205
65°	167	164
75°	89	94
85°	22	26
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4144.1
2.5°	4100.8
5°	4005.6
7.5°	3926.2
10°	3849.5
12.5°	3784.5
15°	3726.1
17.5°	3585.1
20°	3384.9
22.5°	2953.2
25°	2452.6
27.5°	2135.0
30°	1656.7
32.5°	1070.1
35°	555.1
37.5°	299.8
40°	272.9
42.5°	271.0
45°	268.4
47.5°	262.4
50°	252.6
52.5°	241.5
55°	229.6
57.5°	216.5
60°	201.4
62.5°	184.4
65°	166.7
67.5°	147.0
70°	127.3
72.5°	107.6
75°	89.2
77.5°	70.2
80°	53.1
82.5°	37.4
85°	21.7
87.5°	8.5
90°	0.0



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— 0°-180°







(END OF REPORT)