

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: P785324

Luminaire Tested: LER4DD50D010-EC4DR7040509040-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P785324
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: LER4DD50D010-EC4DR7040509040-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3006.4 lumens
Efficiency: N/A
Efficacy: 64.0 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): 47
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

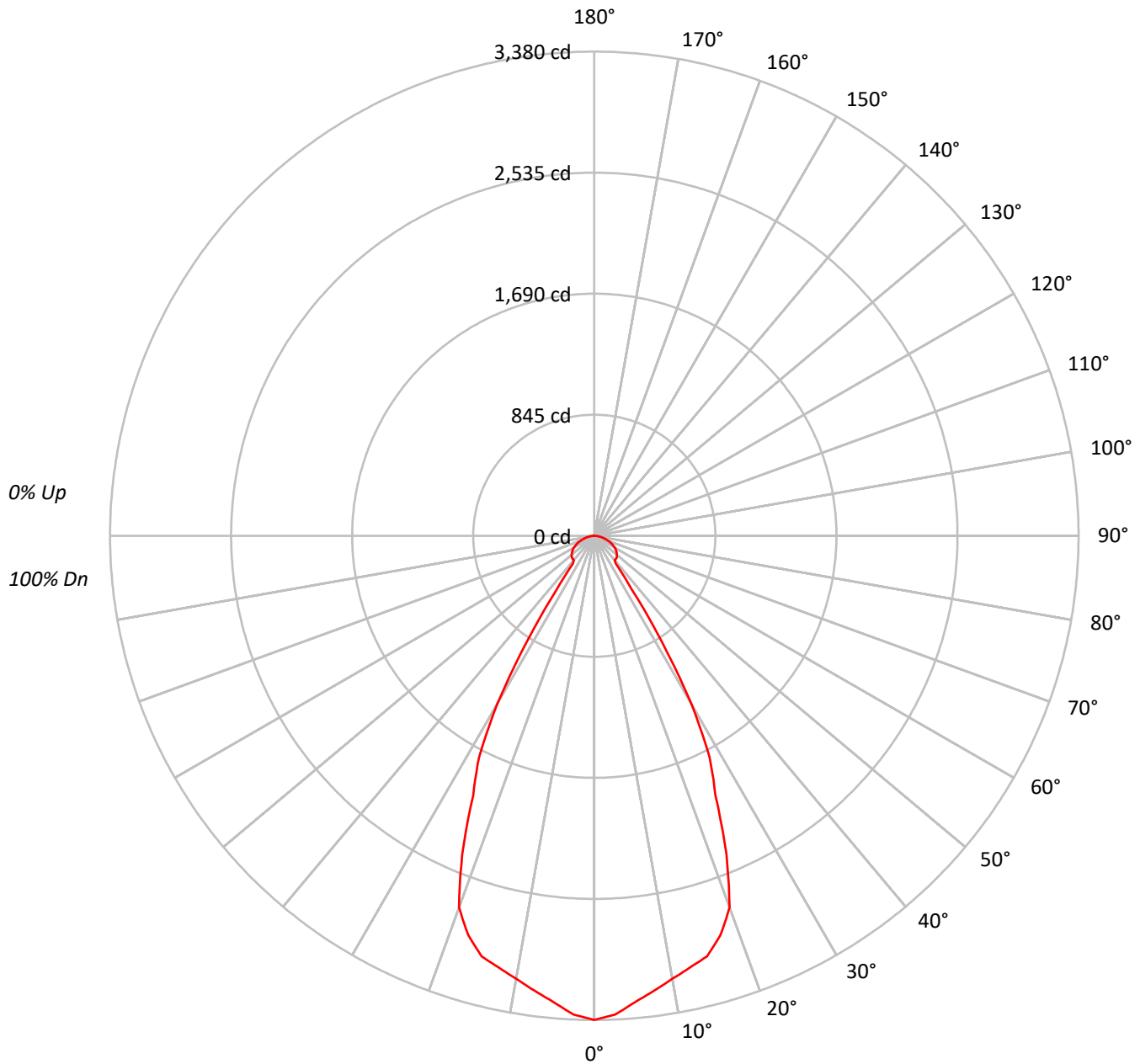


Downlight

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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				0
RW	70	50	30	10	70	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°	369312
5°	358340
10°	348349
15°	343779
20°	321018
25°	241160
30°	170485
35°	60382
40°	31749
45°	33824
50°	35016
55°	35679
60°	35903
65°	35135
70°	33160
75°	30733
80°	27245
85°	22189

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 35912 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.2	10.3
10°-20°	845.3	28.1
20°-30°	931.0	31.0
30°-40°	355.7	11.8
40°-50°	168.0	5.6
50°-60°	167.0	5.6
60°-70°	133.7	4.4
70°-80°	76.8	2.6
80°-90°	20.9	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°	2084.4	69.3
0°-40°	2440.1	81.2
0°-60°	2775.0	92.3
0°-90°	3006.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3006.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3380	
5°	3267	308
15°	3039	845
25°	2000	931
35°	453	356
45°	219	168
55°	187	167
65°	136	134
75°	73	77
85°	18	21
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3380.1
2.5°	3344.8
5°	3267.2
7.5°	3202.4
10°	3139.8
12.5°	3086.8
15°	3039.2
17.5°	2924.1
20°	2760.9
22.5°	2408.8
25°	2000.4
27.5°	1741.4
30°	1351.3
32.5°	872.9
35°	452.7
37.5°	244.6
40°	222.6
42.5°	221.0
45°	218.9
47.5°	214.1
50°	206.0
52.5°	196.9
55°	187.3
57.5°	176.6
60°	164.3
62.5°	150.4
65°	135.9
67.5°	119.9
70°	103.8
72.5°	87.8
75°	72.8
77.5°	57.3
80°	43.3
82.5°	30.5
85°	17.7
87.5°	7.0
90°	0.0



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— 0°-180°







(END OF REPORT)