

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: P785296

Luminaire Tested: LER4DD50D010-EC4DR6540509035-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P785296
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-59)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4DD50D010-EC4DR6540509035-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3192.0 lumens
Efficiency: N/A
Efficacy: 67.9 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.92
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

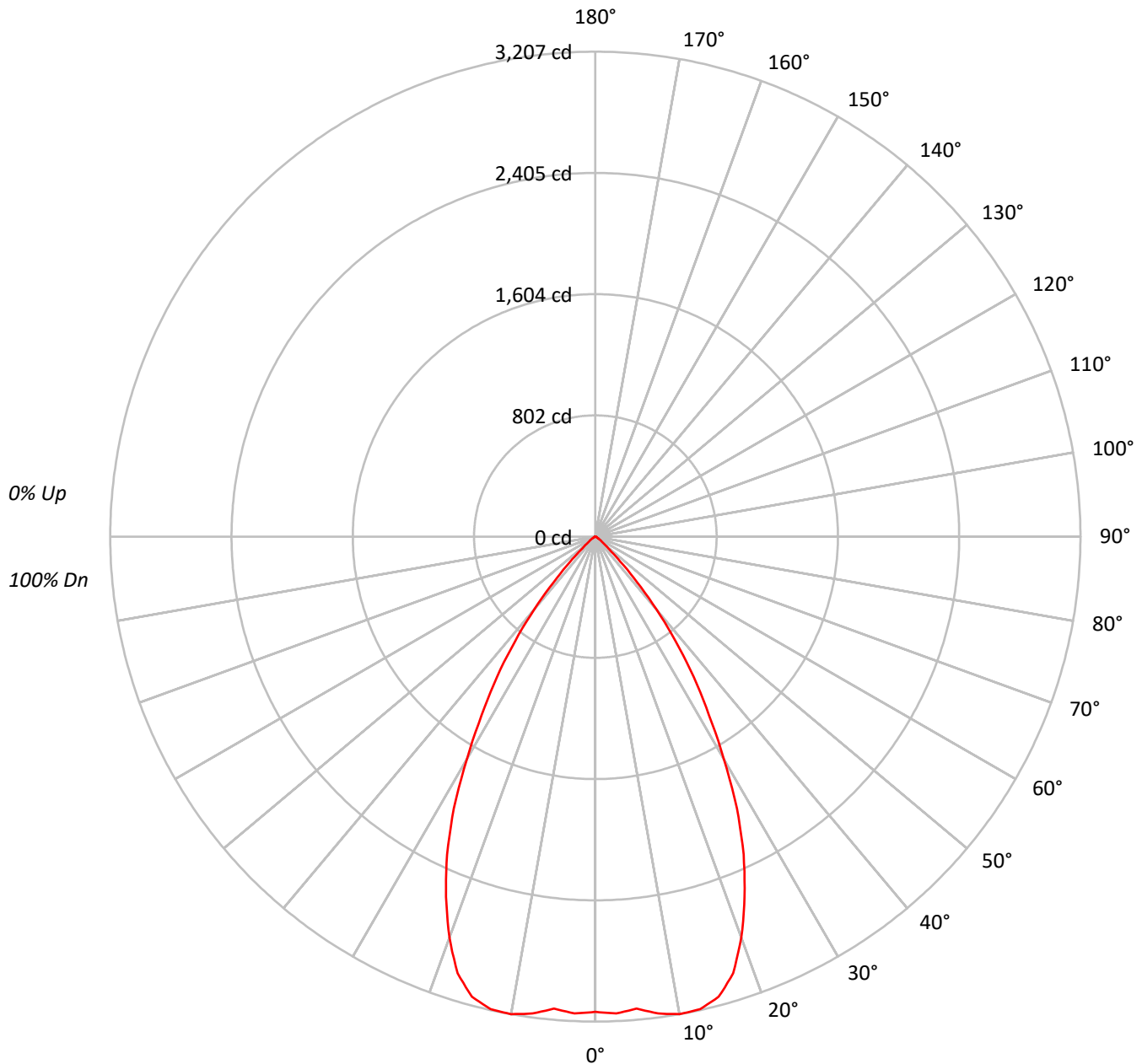


Downlight

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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	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	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93						
2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87						
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80						
4	97	89	84	79	95	88	83	79	86	82	78	84	80	77	82	79	76	75						
5	92	83	78	73	90	83	77	73	81	76	72	79	75	72	77	74	71	69						
6	87	78	72	68	86	77	72	68	76	71	67	74	70	67	73	69	66	65						
7	83	73	67	63	81	73	67	63	71	66	62	70	66	62	69	65	62	60						
8	79	69	63	59	77	68	63	59	67	62	58	66	62	58	65	61	58	57						
9	75	65	59	55	74	65	59	55	64	58	55	63	58	55	62	58	54	53						
10	71	61	56	52	70	61	55	52	60	55	51	59	55	51	59	54	51	50						

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	343385
5°	343665
10°	355771
15°	356358
20°	328087
25°	279545
30°	213998
35°	151189
40°	89243
45°	36234
50°	13139
55°	7315
60°	4196
65°	2301
70°	2428
75°	1900
80°	1951
85°	1630

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 36234 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.6	9.5
10°-20°	872.9	27.3
20°-30°	1047.4	32.8
30°-40°	703.8	22.1
40°-50°	210.7	6.6
50°-60°	37.2	1.2
60°-70°	10.6	0.3
70°-80°	5.2	0.2
80°-90°	1.6	0.1
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°	2222.9	69.6
0°-40°	2926.8	91.7
0°-60°	3174.7	99.5
0°-90°	3192.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3192.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3143	
5°	3133	303
15°	3150	873
25°	2319	1047
35°	1134	704
45°	234	211
55°	38	37
65°	9	11
75°	4	5
85°	1	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3142.8
2.5°	3156.2
5°	3133.4
7.5°	3180.8
10°	3206.7
12.5°	3200.4
15°	3150.4
17.5°	3028.0
20°	2821.7
22.5°	2578.7
25°	2318.8
27.5°	2025.4
30°	1696.2
32.5°	1397.9
35°	1133.5
37.5°	872.2
40°	625.7
42.5°	408.6
45°	234.5
47.5°	124.2
50°	77.3
52.5°	53.6
55°	38.4
57.5°	27.7
60°	19.2
62.5°	12.5
65°	8.9
67.5°	8.0
70°	7.6
72.5°	5.8
75°	4.5
77.5°	4.0
80°	3.1
82.5°	2.2
85°	1.3
87.5°	0.9
90°	0.0



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— 0°-180°







(END OF REPORT)