

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: P780040

Luminaire Tested: LER4D15D010-EC4DR650215IC9035-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P780040
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-147)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D15D010-EC4DR650215IC9035-4LBS1B
Description: 4 INCH ROUND SHALLOW 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: 1214.0 lumens
Efficiency: N/A
Efficacy: 76.8 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.96
Luminous Opening: Circular (Dia: 0.48' x H: 0')
CIE Type: Direct

Input Watts (W): 15.8
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



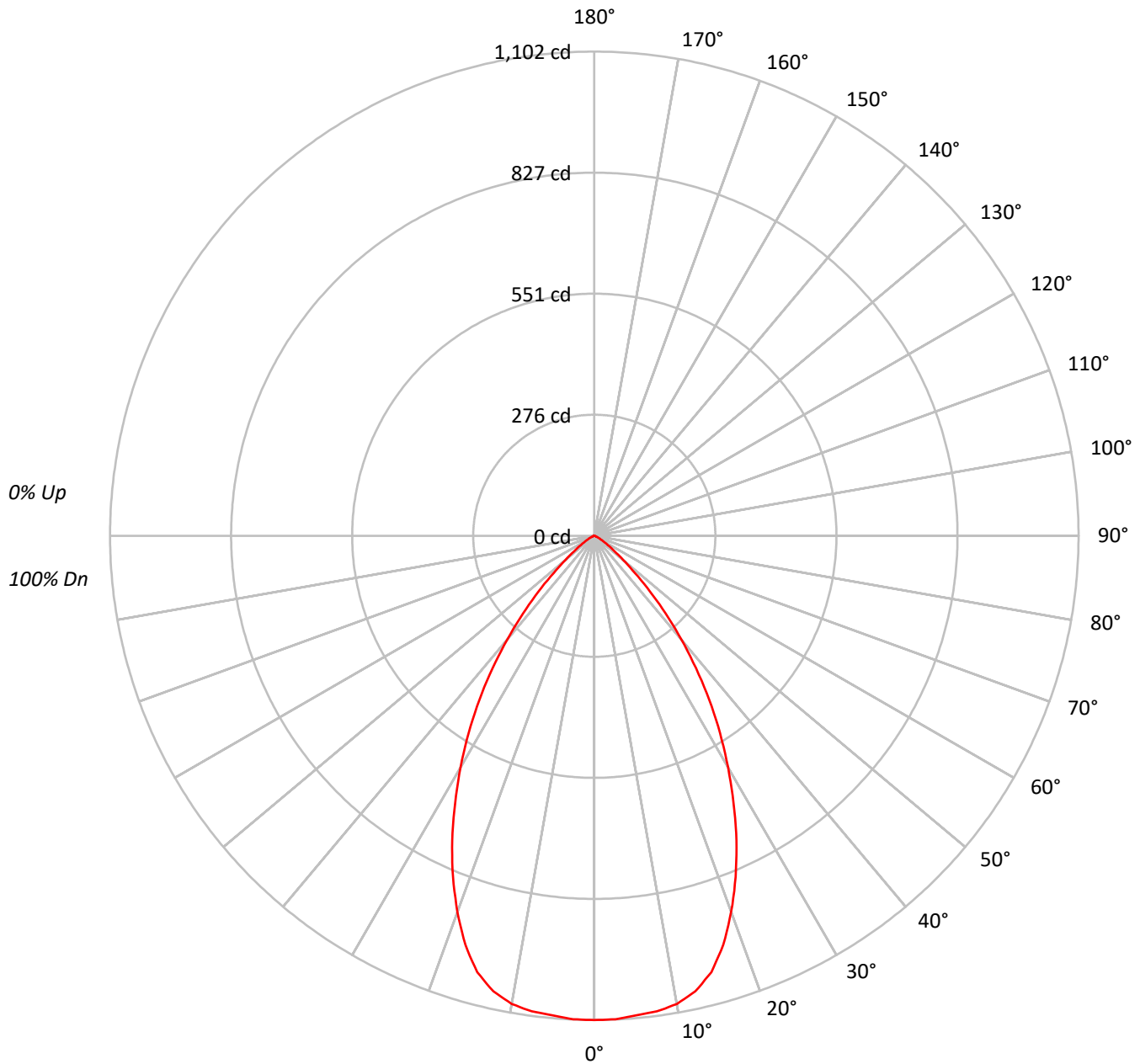
Downlight



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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	100	100				
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	97	95	94	93	93				
2	107	102	97	94	105	100	96	92	97	93	90	94	91	88	91	89	87	85	85	85				
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	80	78	78	78				
4	95	87	81	76	93	86	80	76	84	79	75	82	77	74	80	76	73	72	72	72				
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66	66	66				
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61	61	61				
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56	56	56				
8	76	66	59	55	75	65	59	55	64	58	54	63	58	54	62	57	54	52	52	52				
9	72	61	55	51	71	61	55	51	60	54	51	59	54	50	58	54	50	49	49	49				
10	68	58	52	47	67	57	51	47	57	51	47	56	51	47	55	50	47	46	46	46				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	64379
5°	64220
10°	64162
15°	62181
20°	56608
25°	49330
30°	41030
35°	32512
40°	23467
45°	14826
50°	7723
55°	4104
60°	2149
65°	1188
70°	495
75°	542
80°	370
85°	335

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14826 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.2	8.6
10°-20°	285.5	23.5
20°-30°	348.9	28.7
30°-40°	283.1	23.3
40°-50°	141.1	11.6
50°-60°	39.3	3.2
60°-70°	8.9	0.7
70°-80°	2.3	0.2
80°-90°	0.6	0.0
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°	738.6	60.8
0°-40°	1021.7	84.2
0°-60°	1202.1	99.0
0°-90°	1214.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1214.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1102	
5°	1095	104
15°	1028	285
25°	766	349
35°	456	283
45°	180	141
55°	40	39
65°	9	9
75°	2	2
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1102.3
2.5°	1101.5
5°	1095.4
7.5°	1091.8
10°	1081.9
12.5°	1061.8
15°	1028.4
17.5°	976.3
20°	910.8
22.5°	840.2
25°	765.5
27.5°	685.7
30°	608.4
32.5°	532.1
35°	456.0
37.5°	380.0
40°	307.8
42.5°	240.1
45°	179.5
47.5°	125.1
50°	85.0
52.5°	58.6
55°	40.3
57.5°	27.2
60°	18.4
62.5°	12.8
65°	8.6
67.5°	4.4
70°	2.9
72.5°	2.8
75°	2.4
77.5°	1.6
80°	1.1
82.5°	0.8
85°	0.5
87.5°	0.3
90°	0.0



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— 0°-180°







(END OF REPORT)