

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: P780239

Luminaire Tested: LER4D20D010-EC4DR4020359040-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P780239
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-28)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D20D010-EC4DR4020359040-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 40° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

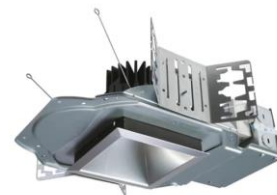
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2088.4 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.6
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 23.1
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



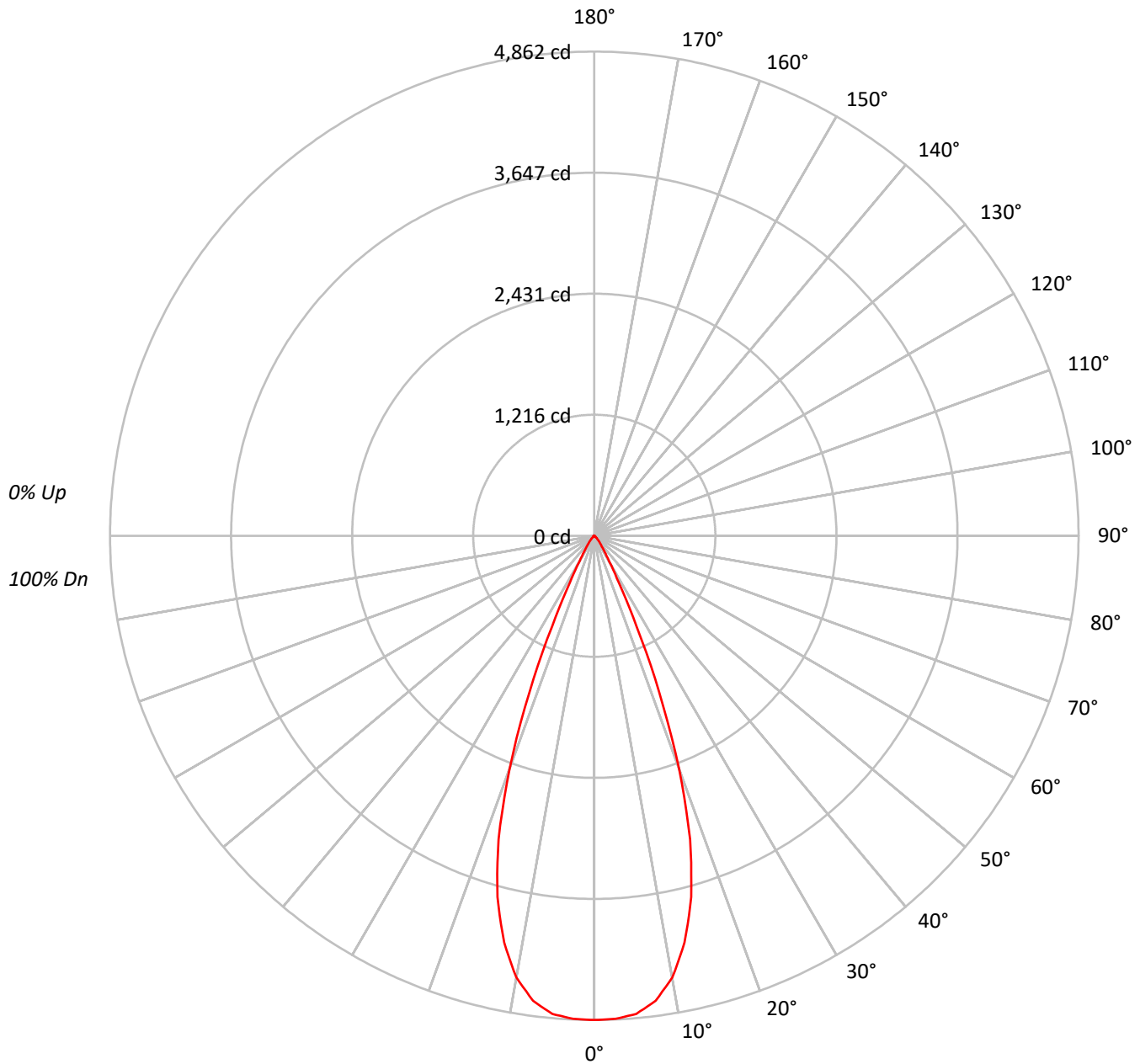
Downlight



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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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	115	112	110	108	112	110	108	107	106	105	103	103	101	100	99	98	97	96		
2	110	106	103	100	108	105	102	99	102	99	97	99	97	95	96	95	93	92		
3	106	101	97	94	104	100	96	93	97	94	92	95	93	90	93	91	89	88		
4	102	97	92	89	101	95	91	88	93	90	87	92	89	86	90	87	85	84		
5	99	92	88	84	97	91	87	84	90	86	83	88	85	83	87	84	82	81		
6	95	88	84	80	94	88	83	80	86	82	80	85	82	79	84	81	79	77		
7	92	85	80	77	91	84	80	77	83	79	76	82	79	76	81	78	76	74		
8	89	82	77	74	88	81	77	74	80	76	73	79	76	73	78	75	73	72		
9	86	79	74	71	85	78	74	71	77	73	71	76	73	70	76	72	70	69		
10	83	76	71	68	82	75	71	68	75	71	68	74	70	68	73	70	68	67		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	531237
5°	528659
10°	499691
15°	424804
20°	289531
25°	120809
30°	37988
35°	17660
40°	9770
45°	4481
50°	2176
55°	1181
60°	634
65°	233
70°	96
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4481 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	450.1	21.6
10°-20°	1008.3	48.3
20°-30°	504.7	24.2
30°-40°	92.5	4.4
40°-50°	25.5	1.2
50°-60°	6.0	0.3
60°-70°	1.2	0.1
70°-80°	0.0	0.0
80°-90°	0.0	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°	1963.1	94.0
0°-40°	2055.6	98.4
0°-60°	2087.2	99.9
0°-90°	2088.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2088.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4862	
5°	4820	450
15°	3756	1008
25°	1002	505
35°	132	93
45°	29	26
55°	6	6
65°	1	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4862.1
2.5°	4855.0
5°	4820.1
7.5°	4708.7
10°	4503.9
12.5°	4184.7
15°	3755.5
17.5°	3197.4
20°	2490.1
22.5°	1697.7
25°	1002.1
27.5°	529.8
30°	301.1
32.5°	194.6
35°	132.4
37.5°	94.6
40°	68.5
42.5°	46.9
45°	29.0
47.5°	18.4
50°	12.8
52.5°	9.1
55°	6.2
57.5°	4.0
60°	2.9
62.5°	1.7
65°	0.9
67.5°	0.6
70°	0.3
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)