

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: P780177

Luminaire Tested: LER4D20D010-EC4DR3020359027-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P780177
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D20D010-EC4DR3020359027-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1835.7 lumens
Efficiency: N/A
Efficacy: 79.5 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 23.1
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



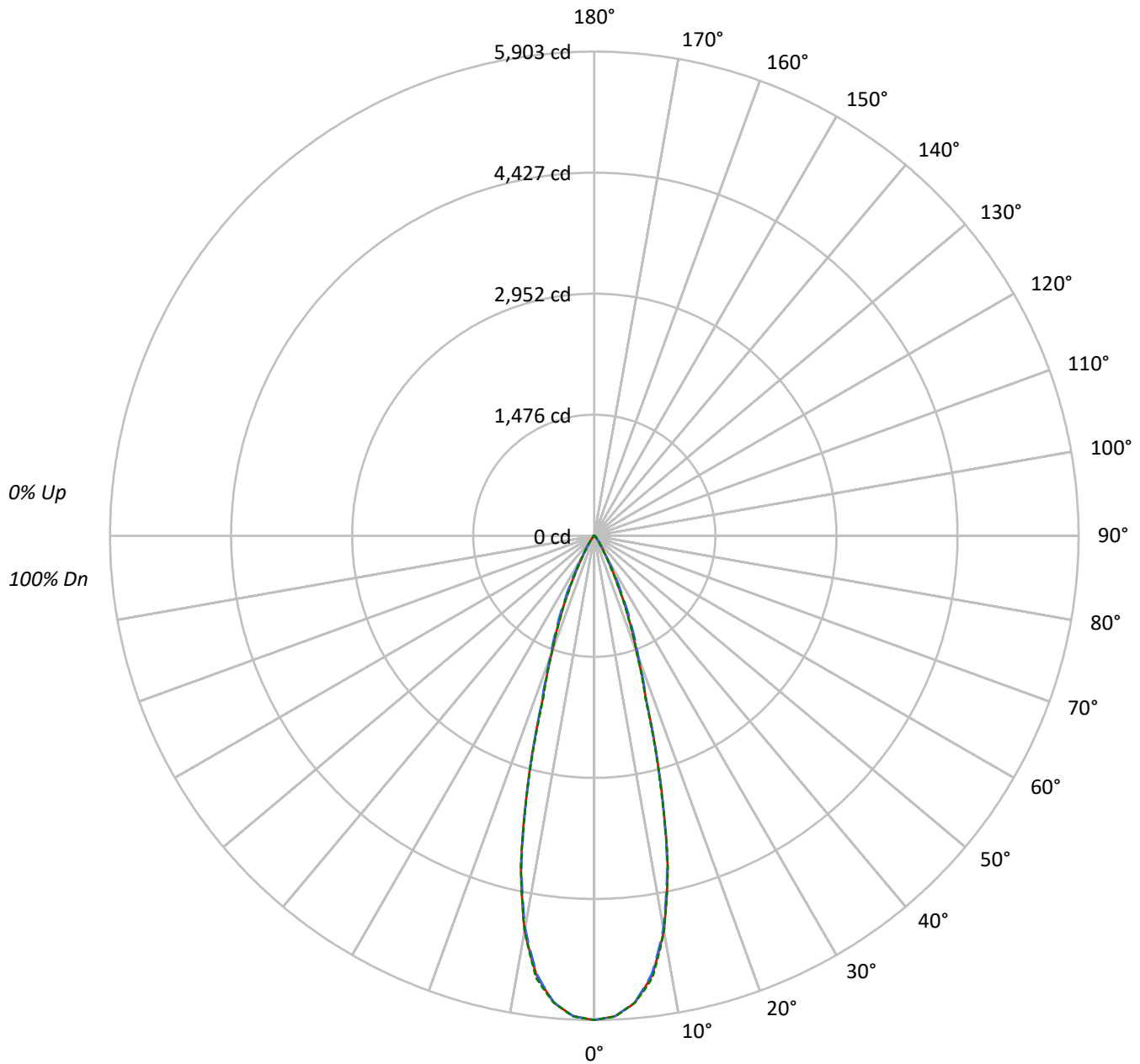
Downlight



TEST NUMBER: P780177

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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					0
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	102	102	100
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	98	98	96
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	94	94	92
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	90	90	89
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	87	87	85
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	83	83	82
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	80	80	79
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	78	78	77
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	75	75	74
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	73	73	72
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	70	70	69

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	451813	451813	451813
5°	438832	438325	438855
10°	380102	377421	380009
15°	247993	246661	245425
20°	123316	127943	123153
25°	62118	70048	60842
30°	24871	27099	21672
35°	11540	11054	9260
40°	4976	5526	4686
45°	3507	4362	3551
50°	1203	3168	1274
55°	694	1321	734
60°	490	582	490
65°	308	308	308
70°	201	134	201
75°	0	89	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 4362 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	519.0	28.3
10°-20°	835.9	45.5
20°-30°	361.2	19.7
30°-40°	82.3	4.5
40°-50°	28.3	1.5
50°-60°	6.9	0.4
60°-70°	1.8	0.1
70°-80°	0.2	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°	1716.2	93.5
0°-40°	1798.5	98.0
0°-60°	1833.7	99.9
0°-90°	1835.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1835.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5903	5903	5903	5903	5903	
5°	5711	5706	5705	5717	5712	519
15°	3130	3092	3113	3103	3097	838
25°	736	763	829	744	720	352
35°	124	126	118	117	99	84
45°	32	40	40	40	33	23
55°	5	6	10	6	6	5
65°	2	2	2	2	2	2
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5902.7	5902.7	5902.7	5902.7	5902.7
2.5°	5863.5	5859.5	5861.7	5864.7	5865.8
5°	5711.3	5705.8	5704.7	5716.6	5711.6
7.5°	5404.5	5396.6	5384.8	5411.7	5436.9
10°	4890.4	4881.7	4855.9	4868.6	4889.2
12.5°	4131.4	4103.2	4102.7	4143.2	4137.7
15°	3129.5	3091.9	3112.7	3102.6	3097.1
17.5°	2104.5	2090.0	2117.9	2109.4	2073.2
20°	1513.9	1517.7	1570.7	1544.0	1511.9
22.5°	1104.7	1118.3	1181.2	1112.6	1087.3
25°	735.5	763.3	829.4	743.9	720.4
27.5°	452.4	465.1	532.1	446.6	433.8
30°	281.4	275.0	306.6	263.2	245.2
32.5°	184.6	176.5	186.6	167.5	153.0
35°	123.5	126.0	118.3	117.3	99.1
37.5°	77.1	88.7	78.3	83.5	63.8
40°	49.8	64.3	55.3	61.1	46.9
42.5°	40.9	49.6	45.5	48.4	41.7
45°	32.4	40.3	40.3	40.3	32.8
47.5°	18.0	26.9	34.5	27.6	19.1
50°	10.1	13.6	26.6	14.2	10.7
52.5°	6.9	7.8	18.3	8.1	7.2
55°	5.2	5.5	9.9	5.8	5.5
57.5°	4.1	4.4	5.2	4.4	4.1
60°	3.2	3.2	3.8	3.5	3.2
62.5°	2.3	2.3	2.6	2.3	2.3
65°	1.7	1.7	1.7	1.7	1.7
67.5°	0.9	1.1	1.1	1.1	1.1
70°	0.9	0.6	0.6	0.6	0.9
72.5°	0.6	0.3	0.3	0.3	0.3
75°	0.0	0.0	0.3	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



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Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)