

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: P780181

Luminaire Tested: LER4D20D010-EC4DR3020359030-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P780181
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-EC4DR3020359030-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1895.5 lumens
Efficiency: N/A
Efficacy: 82.1 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 (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



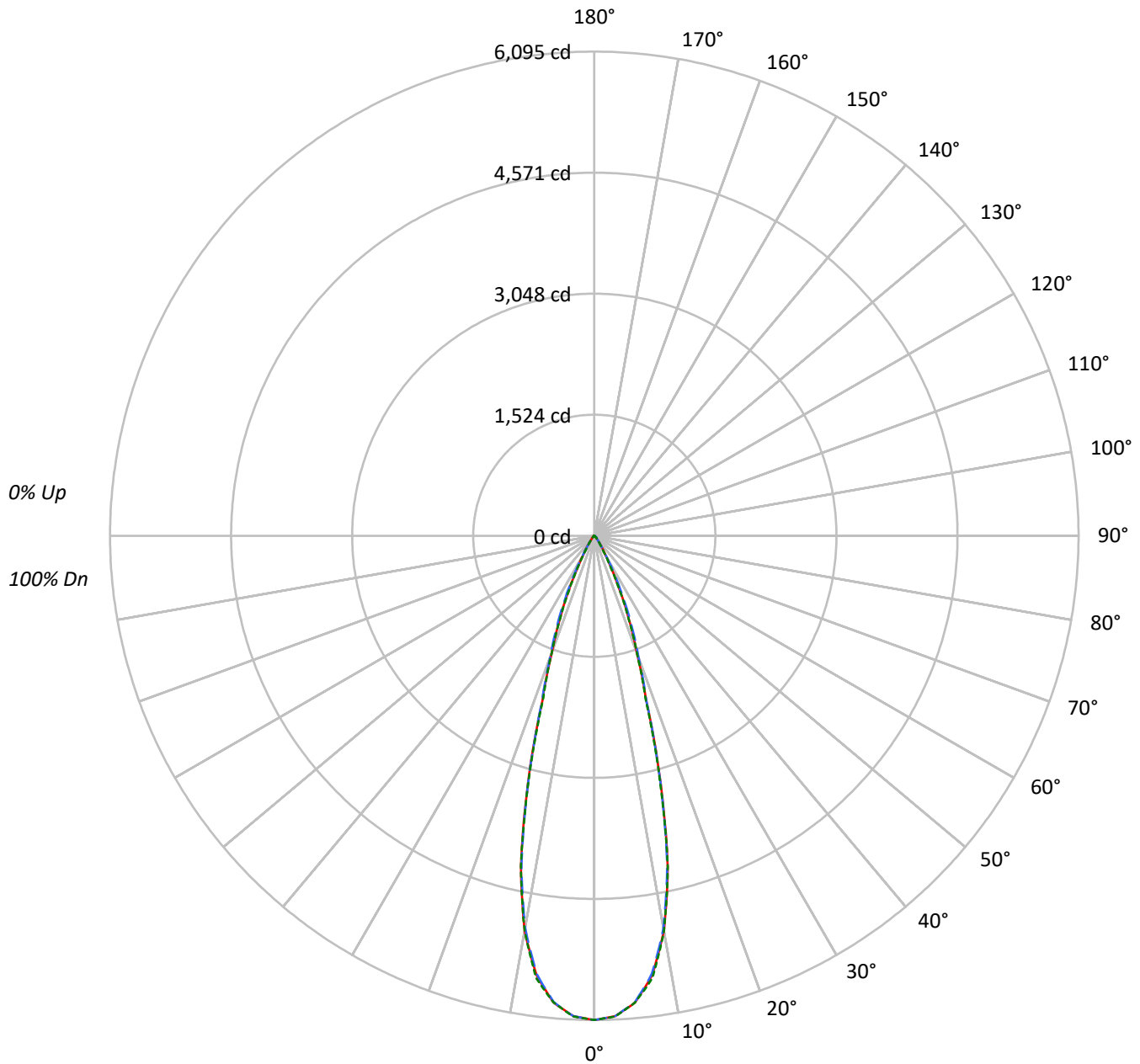
Downlight



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	466517	466517	466517
5°	453124	452601	453147
10°	392476	389701	392383
15°	256068	254697	253413
20°	127332	132113	127161
25°	64136	72328	62827
30°	25676	27983	22370
35°	11914	11409	9559
40°	5146	5715	4846
45°	3626	4503	3659
50°	1250	3275	1322
55°	721	1361	761
60°	505	597	505
65°	326	326	326
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: 4503 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	535.9	28.3
10°-20°	863.1	45.5
20°-30°	373.0	19.7
30°-40°	85.0	4.5
40°-50°	29.2	1.5
50°-60°	7.1	0.4
60°-70°	1.9	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°	1772.1	93.5
0°-40°	1857.1	98.0
0°-60°	1893.4	99.9
0°-90°	1895.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1895.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6095	6095	6095	6095	6095	
5°	5897	5892	5890	5903	5898	536
15°	3231	3192	3214	3204	3198	865
25°	759	788	856	768	744	364
35°	128	130	122	121	102	86
45°	34	42	42	42	34	24
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°	6094.8	6094.8	6094.8	6094.8	6094.8
2.5°	6054.4	6050.2	6052.6	6055.6	6056.8
5°	5897.3	5891.7	5890.5	5902.7	5897.6
7.5°	5580.4	5572.3	5560.1	5587.9	5613.9
10°	5049.6	5040.6	5013.9	5027.1	5048.4
12.5°	4265.9	4236.9	4236.3	4278.2	4272.5
15°	3231.4	3192.5	3214.1	3203.6	3197.9
17.5°	2173.0	2158.1	2186.8	2178.1	2140.7
20°	1563.2	1567.1	1621.9	1594.4	1561.1
22.5°	1140.7	1154.7	1219.7	1148.8	1122.8
25°	759.4	788.2	856.4	768.2	743.9
27.5°	467.1	480.2	549.4	461.1	447.9
30°	290.5	284.0	316.6	271.7	253.1
32.5°	190.6	182.3	192.7	173.0	158.0
35°	127.5	130.2	122.1	121.2	102.3
37.5°	79.6	91.6	80.8	86.2	65.8
40°	51.5	66.4	57.2	63.1	48.5
42.5°	42.2	51.2	47.0	50.0	43.1
45°	33.5	41.6	41.6	41.6	33.8
47.5°	18.6	27.8	35.6	28.4	19.8
50°	10.5	14.0	27.5	14.7	11.1
52.5°	7.2	8.1	18.9	8.4	7.5
55°	5.4	5.7	10.2	6.0	5.7
57.5°	4.2	4.5	5.4	4.5	4.2
60°	3.3	3.3	3.9	3.6	3.3
62.5°	2.4	2.4	2.7	2.4	2.4
65°	1.8	1.8	1.8	1.8	1.8
67.5°	0.9	1.2	1.2	1.2	1.2
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



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)