

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: P780182

Luminaire Tested: LER4D20D010-EC4DR3020359030-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P780182
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-EC4DR3020359030-4LBS1LI
Description: 4 INCH ROUND SHALLOW 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: 1990.2 lumens
Efficiency: N/A
Efficacy: 86.2 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



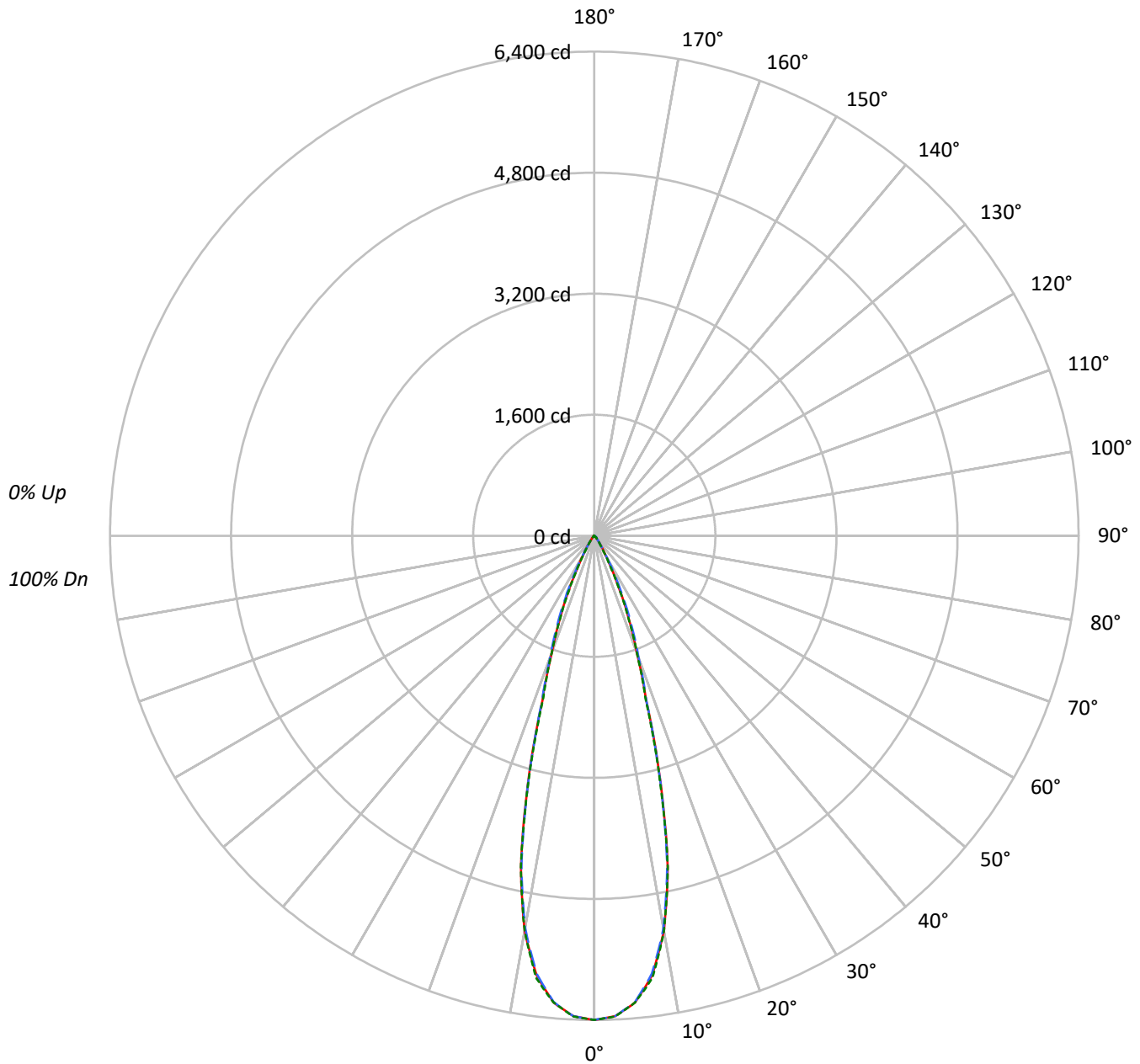
Downlight



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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					0
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°	489847	489847	489847
5°	475783	475222	475806
10°	412101	409195	412000
15°	268873	267431	266084
20°	133702	138711	133522
25°	67345	75943	65969
30°	26966	29379	23493
35°	12503	11979	10036
40°	5396	5995	5086
45°	3810	4730	3843
50°	1310	3441	1381
55°	761	1428	801
60°	520	628	520
65°	344	344	344
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: 4730 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	562.7	28.3
10°-20°	906.3	45.5
20°-30°	391.6	19.7
30°-40°	89.3	4.5
40°-50°	30.7	1.5
50°-60°	7.5	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°	1860.7	93.5
0°-40°	1949.9	98.0
0°-60°	1988.1	99.9
0°-90°	1990.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1990.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6400	6400	6400	6400	6400	
5°	6192	6186	6185	6198	6192	563
15°	3393	3352	3375	3364	3358	909
25°	797	828	899	806	781	382
35°	134	137	128	127	107	91
45°	35	44	44	44	36	25
55°	6	6	11	6	6	6
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°	6399.6	6399.6	6399.6	6399.6	6399.6
2.5°	6357.1	6352.8	6355.2	6358.4	6359.6
5°	6192.2	6186.2	6184.9	6197.8	6192.5
7.5°	5859.5	5851.0	5838.1	5867.3	5894.6
10°	5302.1	5292.6	5264.7	5278.5	5300.8
12.5°	4479.2	4448.7	4448.1	4492.0	4486.1
15°	3393.0	3352.2	3374.8	3363.8	3357.8
17.5°	2281.7	2266.0	2296.2	2287.0	2247.7
20°	1641.4	1645.5	1702.9	1674.0	1639.2
22.5°	1197.7	1212.5	1280.7	1206.2	1178.8
25°	797.4	827.6	899.2	806.5	781.1
27.5°	490.4	504.3	576.8	484.2	470.3
30°	305.1	298.2	332.4	285.3	265.8
32.5°	200.1	191.4	202.4	181.6	165.9
35°	133.8	136.6	128.2	127.3	107.4
37.5°	83.6	96.1	84.9	90.5	69.1
40°	54.0	69.7	60.0	66.3	50.9
42.5°	44.3	53.7	49.3	52.5	45.3
45°	35.2	43.7	43.7	43.7	35.5
47.5°	19.5	29.2	37.4	29.9	20.7
50°	11.0	14.8	28.9	15.4	11.6
52.5°	7.6	8.5	19.8	8.8	7.8
55°	5.7	6.0	10.7	6.3	6.0
57.5°	4.4	4.7	5.7	4.7	4.4
60°	3.4	3.4	4.1	3.8	3.4
62.5°	2.5	2.5	2.8	2.5	2.5
65°	1.9	1.9	1.9	1.9	1.9
67.5°	0.9	1.3	1.3	1.3	1.3
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°

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

Scaled Data Report







(END OF REPORT)