

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: P790188

Luminaire Tested: LER6D20D010-EC6DR3020359027-6LBS1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P790188
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER6D20D010-EC6DR3020359027-6LBS1H
Description: 6 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: 3332.1 lumens
Efficiency: N/A
Efficacy: 144.2 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

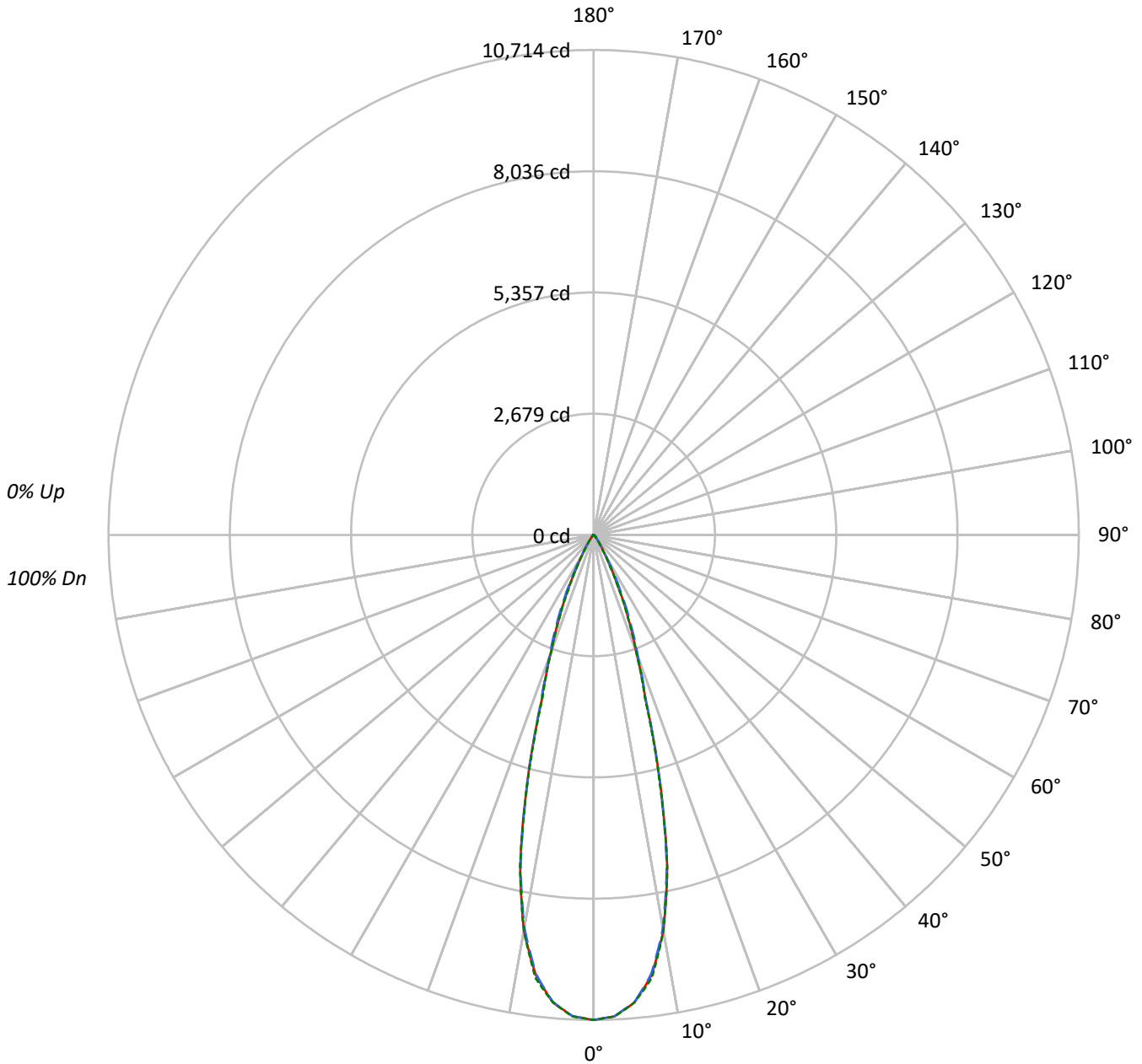
Input Watts (W): 23.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	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													
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96						96													
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92						92													
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89						89													
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85						85													
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82						82													
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79						79													
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77						77													
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74						74													
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72						72													
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69						69													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	820101	820101	820101
5°	796564	795634	796603
10°	689942	685077	689779
15°	450151	447734	445483
20°	223840	232239	223539
25°	112758	127149	110443
30°	45147	49186	39331
35°	20940	20053	16810
40°	9043	10042	8513
45°	6376	7913	6430
50°	2191	5763	2322
55°	1268	2389	1334
60°	888	1041	888
65°	580	580	580
70°	358	246	358
75°	0	148	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 7913 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	942.2	28.3
10°-20°	1517.4	45.5
20°-30°	655.7	19.7
30°-40°	149.4	4.5
40°-50°	51.3	1.5
50°-60°	12.5	0.4
60°-70°	3.3	0.1
70°-80°	0.3	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°	3115.2	93.5
0°-40°	3264.6	98.0
0°-60°	3328.5	99.9
0°-90°	3332.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3332.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10714	10714	10714	10714	10714	
5°	10367	10357	10355	10376	10368	943
15°	5681	5612	5650	5632	5622	1521
25°	1335	1386	1506	1350	1308	639
35°	224	229	215	213	180	152
45°	59	73	73	73	59	42
55°	10	10	18	10	10	9
65°	3	3	3	3	3	3
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10714.2	10714.2	10714.2	10714.2	10714.2
2.5°	10643.2	10635.9	10640.1	10645.3	10647.4
5°	10367.1	10357.1	10355.0	10376.5	10367.6
7.5°	9810.0	9795.8	9774.2	9823.1	9868.9
10°	8876.8	8861.0	8814.2	8837.4	8874.7
12.5°	7499.1	7448.1	7447.1	7520.7	7510.7
15°	5680.6	5612.3	5650.1	5631.7	5621.7
17.5°	3820.1	3793.8	3844.3	3829.0	3763.2
20°	2748.0	2754.8	2851.1	2802.7	2744.3
22.5°	2005.2	2030.0	2144.1	2019.4	1973.7
25°	1335.1	1385.6	1505.5	1350.3	1307.7
27.5°	821.1	844.3	965.8	810.6	787.5
30°	510.8	499.2	556.5	477.6	445.0
32.5°	335.1	320.4	338.8	304.0	277.7
35°	224.1	228.8	214.6	213.0	179.9
37.5°	139.9	161.0	142.0	151.5	115.7
40°	90.5	116.8	100.5	111.0	85.2
42.5°	74.2	90.0	82.6	87.8	75.7
45°	58.9	73.1	73.1	73.1	59.4
47.5°	32.6	48.9	62.6	50.0	34.7
50°	18.4	24.7	48.4	25.8	19.5
52.5°	12.6	14.2	33.1	14.7	13.2
55°	9.5	10.0	17.9	10.5	10.0
57.5°	7.4	7.9	9.5	7.9	7.4
60°	5.8	5.8	6.8	6.3	5.8
62.5°	4.2	4.2	4.7	4.2	4.2
65°	3.2	3.2	3.2	3.2	3.2
67.5°	1.6	2.1	2.1	2.1	2.1
70°	1.6	1.1	1.1	1.1	1.6
72.5°	1.1	0.5	0.5	0.5	0.5
75°	0.0	0.0	0.5	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

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

Scaled Data Report



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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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