

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



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: P790187

Luminaire Tested: LER6D20D010-EC6DR3020359027-6LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P790187
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-EC6DR3020359027-6LBS1B
Description: 6 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3124.1 lumens
Efficiency: N/A
Efficacy: 135.2 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

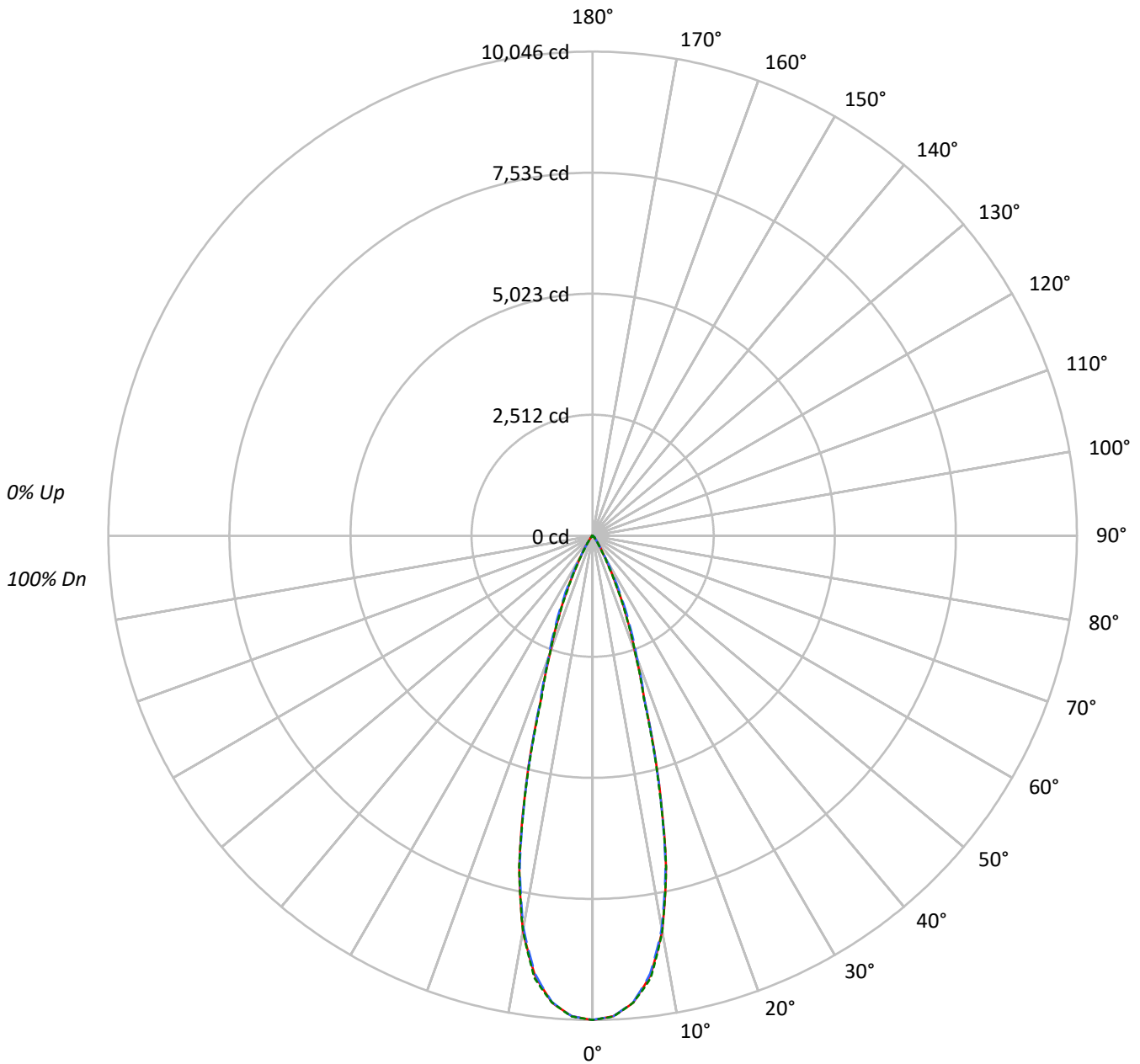


Downlight

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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°	768917	768917	768917
5°	746836	745968	746875
10°	646875	642313	646720
15°	422051	419785	417677
20°	209871	217739	209586
25°	105714	119210	103552
30°	42327	46119	36874
35°	19632	18801	15764
40°	8473	9412	7984
45°	5975	7426	6029
50°	2060	5406	2167
55°	1188	2242	1254
60°	827	980	827
65°	543	543	543
70°	336	224	336
75°	0	148	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 7426 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	883.3	28.3
10°-20°	1422.6	45.5
20°-30°	614.8	19.7
30°-40°	140.1	4.5
40°-50°	48.1	1.5
50°-60°	11.8	0.4
60°-70°	3.1	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°	2920.7	93.5
0°-40°	3060.8	98.0
0°-60°	3120.7	99.9
0°-90°	3124.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3124.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10046	10046	10046	10046	10046	
5°	9720	9711	9709	9729	9720	884
15°	5326	5262	5297	5280	5271	1426
25°	1252	1299	1412	1266	1226	599
35°	210	214	201	200	169	143
45°	55	69	69	69	56	39
55°	9	9	17	10	9	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°	10045.5	10045.5	10045.5	10045.5	10045.5
2.5°	9978.9	9972.0	9975.9	9980.8	9982.8
5°	9719.9	9710.6	9708.6	9728.8	9720.4
7.5°	9197.6	9184.3	9164.1	9210.0	9252.9
10°	8322.7	8307.9	8264.0	8285.7	8320.7
12.5°	7031.0	6983.2	6982.2	7051.2	7041.9
15°	5326.0	5261.9	5297.4	5280.2	5270.8
17.5°	3581.6	3556.9	3604.3	3590.0	3528.3
20°	2576.5	2582.9	2673.1	2627.8	2573.0
22.5°	1880.1	1903.3	2010.3	1893.4	1850.5
25°	1251.7	1299.1	1411.5	1266.0	1226.1
27.5°	769.9	791.6	905.5	760.0	738.3
30°	478.9	468.0	521.8	447.8	417.2
32.5°	314.2	300.4	317.6	285.1	260.4
35°	210.1	214.5	201.2	199.7	168.7
37.5°	131.2	150.9	133.2	142.0	108.5
40°	84.8	109.5	94.2	104.1	79.9
42.5°	69.5	84.3	77.4	82.4	71.0
45°	55.2	68.6	68.6	68.6	55.7
47.5°	30.6	45.9	58.7	46.9	32.6
50°	17.3	23.2	45.4	24.2	18.2
52.5°	11.8	13.3	31.1	13.8	12.3
55°	8.9	9.4	16.8	9.9	9.4
57.5°	6.9	7.4	8.9	7.4	6.9
60°	5.4	5.4	6.4	5.9	5.4
62.5°	3.9	3.9	4.4	3.9	3.9
65°	3.0	3.0	3.0	3.0	3.0
67.5°	1.5	2.0	2.0	2.0	2.0
70°	1.5	1.0	1.0	1.0	1.5
72.5°	1.0	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

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Scaled Data Report





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

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