

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: P788979

Luminaire Tested: LER6D10D010-EC6DR300210IC9040-6LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P788979
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: LER6D10D010-EC6DR300210IC9040-6LBS1B
Description: 6 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1896.6 lumens
Efficiency: N/A
Efficacy: 162.1 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

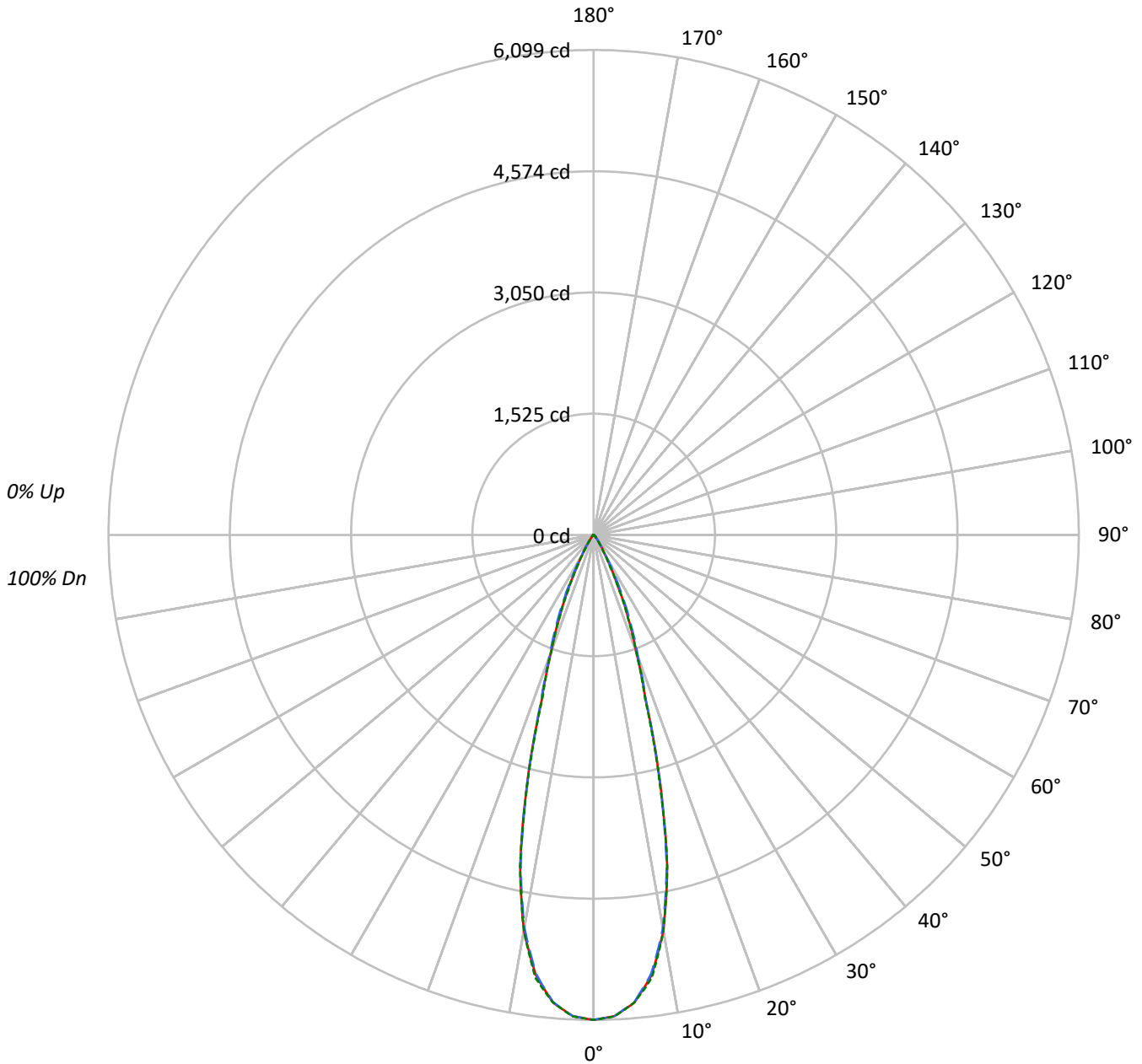
Input Watts (W): 11.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	466808	466808	466808
5°	453408	452878	453431
10°	392717	389950	392624
15°	256234	254855	253571
20°	127413	132195	127242
25°	64178	72371	62869
30°	25693	28000	22388
35°	11923	11419	9568
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°	536.3	28.3
10°-20°	863.7	45.5
20°-30°	373.2	19.7
30°-40°	85.1	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°	1773.2	93.5
0°-40°	1858.2	98.0
0°-60°	1894.6	99.9
0°-90°	1896.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1896.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6099	6099	6099	6099	6099	
5°	5901	5895	5894	5906	5901	537
15°	3234	3194	3216	3206	3200	866
25°	760	789	857	769	744	364
35°	128	130	122	121	102	87
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°	6098.6	6098.6	6098.6	6098.6	6098.6
2.5°	6058.2	6054.0	6056.4	6059.4	6060.6
5°	5901.0	5895.3	5894.1	5906.4	5901.3
7.5°	5583.9	5575.8	5563.5	5591.4	5617.4
10°	5052.7	5043.8	5017.1	5030.3	5051.5
12.5°	4268.6	4239.5	4238.9	4280.8	4275.1
15°	3233.5	3194.5	3216.1	3205.6	3199.9
17.5°	2174.4	2159.4	2188.2	2179.5	2142.1
20°	1564.2	1568.1	1622.9	1595.3	1562.1
22.5°	1141.4	1155.5	1220.4	1149.5	1123.4
25°	759.9	788.7	856.9	768.6	744.4
27.5°	467.4	480.6	549.7	461.4	448.2
30°	290.7	284.2	316.8	271.9	253.3
32.5°	190.7	182.3	192.8	173.1	158.1
35°	127.6	130.2	122.2	121.3	102.4
37.5°	79.6	91.6	80.8	86.2	65.9
40°	51.5	66.5	57.2	63.2	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	14.1	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

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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