

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: P790043

Luminaire Tested: LER6D20D010-EC6DR1515309027-6LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P790043
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER6D20D010-EC6DR1515309027-6LBS1B
Description: 6 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1853.1 lumens
Efficiency: N/A
Efficacy: 80.2 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.23
Luminous Opening: Vertical Cylinder (Dia: 0.35' x H: 0.35')
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

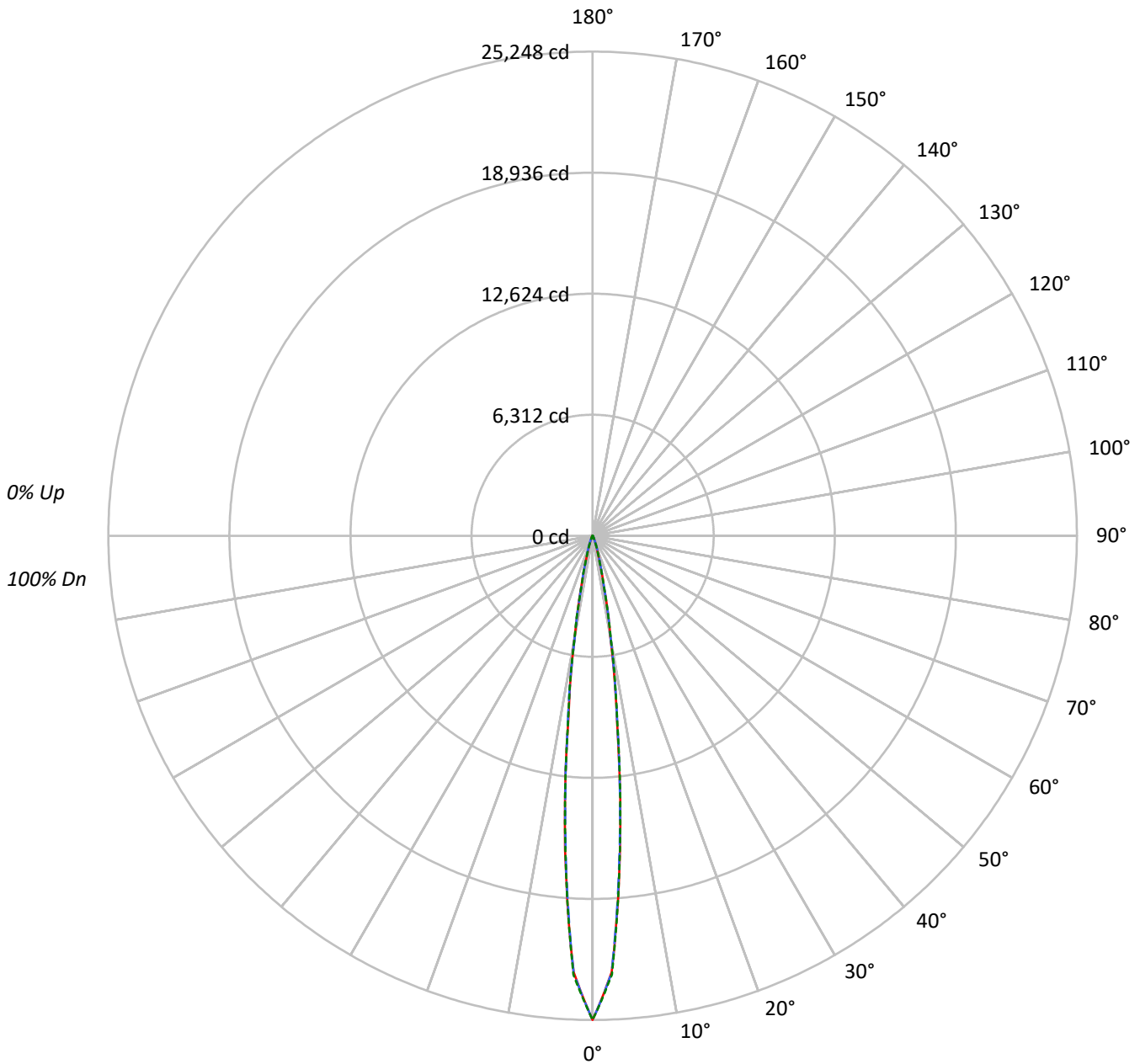


Downlight

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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	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98						98													
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96						96													
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94						94													
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93						93													
5	106	101	98	95	104	100	97	95	98	96	94	97	95	93	96	94	92	92						92													
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90						90													
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89						89													
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88						88													
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	88	87						87													
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86						86													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2840949	2840949	2840949
5°	1669478	1647862	1660891
10°	498263	501752	509431
15°	123936	126351	122451
20°	37082	42941	37868
25°	13072	16655	13235
30°	4800	6320	4882
35°	2404	2716	2331
40°	1520	1669	1520
45°	1120	1197	1120
50°	890	890	890
55°	745	745	745
60°	604	604	604
65°	457	457	457
70°	388	388	388
75°	242	242	325
80°	166	166	166
85°	91	91	91

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1197 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1201.9	64.9
10°-20°	494.4	26.7
20°-30°	98.2	5.3
30°-40°	24.5	1.3
40°-50°	12.9	0.7
50°-60°	9.6	0.5
60°-70°	6.7	0.4
70°-80°	3.8	0.2
80°-90°	1.2	0.1
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°	1794.4	96.8
0°-40°	1818.9	98.2
0°-60°	1841.4	99.4
0°-90°	1853.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1853.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	25248	25248	25248	25248	25248	
5°	16427	16258	16214	16327	16343	1200
15°	1427	1454	1455	1429	1410	489
25°	168	190	214	189	170	88
35°	33	35	37	35	32	22
45°	16	16	17	16	16	13
55°	11	11	11	11	11	10
65°	6	6	6	6	6	7
75°	3	3	3	3	4	4
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	25248.4	25248.4	25248.4	25248.4	25248.4
2.5°	22775.1	22794.3	22801.8	22824.2	22907.6
5°	16427.2	16258.3	16214.5	16326.7	16342.7
7.5°	9730.8	9765.0	9890.1	9917.9	9817.4
10°	5340.0	5383.8	5377.4	5415.9	5459.7
12.5°	2730.9	2696.7	2686.0	2729.8	2668.9
15°	1426.9	1453.6	1454.7	1429.1	1409.8
17.5°	767.4	798.4	849.7	808.1	743.9
20°	453.2	481.0	524.8	490.6	462.8
22.5°	280.0	302.5	333.5	306.8	284.3
25°	167.8	190.3	213.8	189.2	169.9
27.5°	99.4	118.6	133.6	117.6	98.3
30°	64.1	74.8	84.4	73.8	65.2
32.5°	44.9	49.2	53.4	49.2	44.9
35°	33.1	35.3	37.4	35.3	32.1
37.5°	25.7	27.8	28.9	26.7	24.6
40°	21.4	22.4	23.5	22.4	21.4
42.5°	18.2	19.2	19.2	19.2	18.2
45°	16.0	16.0	17.1	16.0	16.0
47.5°	13.9	13.9	15.0	13.9	13.9
50°	12.8	12.8	12.8	12.8	12.8
52.5°	11.8	11.8	11.8	11.8	11.8
55°	10.7	10.7	10.7	10.7	10.7
57.5°	9.6	9.6	9.6	9.6	9.6
60°	8.6	8.6	8.6	8.6	8.6
62.5°	7.5	7.5	7.5	7.5	7.5
65°	6.4	6.4	6.4	6.4	6.4
67.5°	6.4	6.4	6.4	6.4	6.4
70°	5.3	5.3	5.3	5.3	5.3
72.5°	4.3	4.3	4.3	4.3	4.3
75°	3.2	3.2	3.2	3.2	4.3
77.5°	3.2	3.2	3.2	3.2	3.2
80°	2.1	2.1	2.1	2.1	2.1
82.5°	2.1	2.1	2.1	2.1	2.1
85°	1.1	1.1	1.1	1.1	1.1
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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