

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: P790058

Luminaire Tested: LER6D20D010-EC6DR1515309035-6LBDP1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P790058
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-EC6DR1515309035-6LBDDP1MW
Description: 6 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1980.4 lumens
Efficiency: N/A
Efficacy: 85.7 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

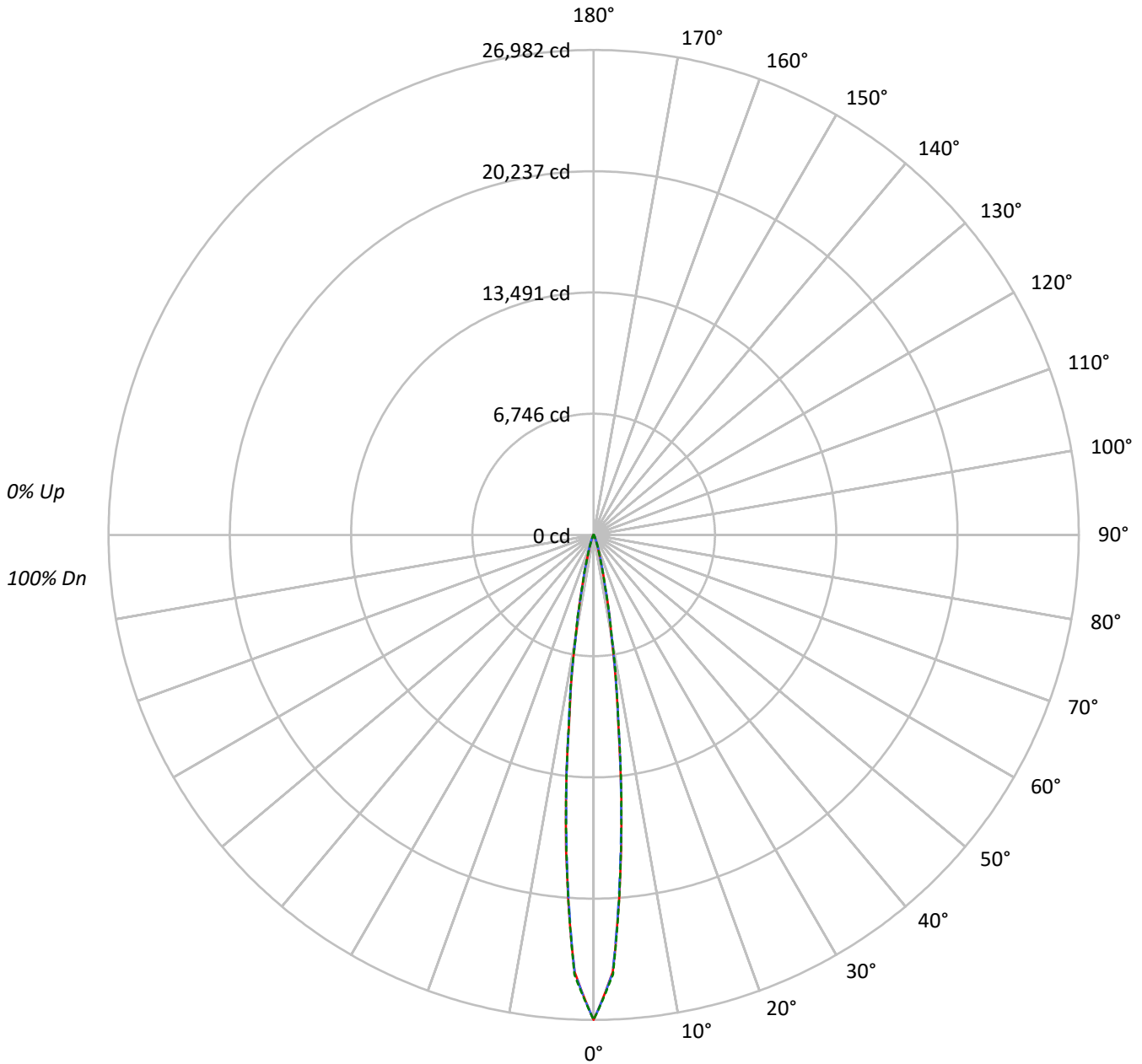
Input Watts (W): 23.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	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°	3036013	3036013	3036013
5°	1784106	1761005	1774928
10°	532469	536201	544412
15°	132448	135028	130859
20°	39627	45886	40470
25°	13968	17793	14147
30°	5129	6754	5219
35°	2571	2905	2491
40°	1619	1782	1619
45°	1197	1281	1197
50°	953	953	953
55°	793	793	793
60°	639	639	639
65°	492	492	492
70°	417	417	417
75°	257	257	348
80°	181	181	181
85°	91	91	91

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1281 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1284.4	64.9
10°-20°	528.3	26.7
20°-30°	104.9	5.3
30°-40°	26.2	1.3
40°-50°	13.8	0.7
50°-60°	10.2	0.5
60°-70°	7.2	0.4
70°-80°	4.1	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°	1917.6	96.8
0°-40°	1943.8	98.2
0°-60°	1967.8	99.4
0°-90°	1980.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1980.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	26982	26982	26982	26982	26982	
5°	17555	17375	17328	17448	17465	1282
15°	1525	1553	1555	1527	1507	523
25°	179	203	228	202	182	94
35°	35	38	40	38	34	24
45°	17	17	18	17	17	13
55°	11	11	11	11	11	10
65°	7	7	7	7	7	7
75°	3	3	3	3	5	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°	26982.0	26982.0	26982.0	26982.0	26982.0
2.5°	24338.8	24359.4	24367.4	24391.4	24480.5
5°	17555.1	17374.6	17327.8	17447.7	17464.8
7.5°	10399.0	10435.5	10569.1	10598.8	10491.5
10°	5706.6	5753.5	5746.6	5787.7	5834.6
12.5°	2918.4	2881.9	2870.4	2917.3	2852.2
15°	1524.9	1553.4	1554.6	1527.2	1506.6
17.5°	820.1	853.3	908.1	863.5	795.0
20°	484.3	514.0	560.8	524.3	494.6
22.5°	299.3	323.3	356.4	327.8	303.8
25°	179.3	203.3	228.4	202.2	181.6
27.5°	106.2	126.8	142.8	125.6	105.1
30°	68.5	80.0	90.2	78.8	69.7
32.5°	48.0	52.5	57.1	52.5	48.0
35°	35.4	37.7	40.0	37.7	34.3
37.5°	27.4	29.7	30.8	28.6	26.3
40°	22.8	24.0	25.1	24.0	22.8
42.5°	19.4	20.6	20.6	20.6	19.4
45°	17.1	17.1	18.3	17.1	17.1
47.5°	14.8	14.8	16.0	14.8	14.8
50°	13.7	13.7	13.7	13.7	13.7
52.5°	12.6	12.6	12.6	12.6	12.6
55°	11.4	11.4	11.4	11.4	11.4
57.5°	10.3	10.3	10.3	10.3	10.3
60°	9.1	9.1	9.1	9.1	9.1
62.5°	8.0	8.0	8.0	8.0	8.0
65°	6.9	6.9	6.9	6.9	6.9
67.5°	6.9	6.9	6.9	6.9	6.9
70°	5.7	5.7	5.7	5.7	5.7
72.5°	4.6	4.6	4.6	4.6	4.6
75°	3.4	3.4	3.4	3.4	4.6
77.5°	3.4	3.4	3.4	3.4	3.4
80°	2.3	2.3	2.3	2.3	2.3
82.5°	2.3	2.3	2.3	2.3	2.3
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

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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