

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: P767987

Luminaire Tested: LD6D55D010-EU6DR3055659040-6LB DP1MW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P767987  
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: LD6D55D010-EU6DR3055659040-6LBDP1MW  
Description: 6 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5999.7 lumens  
Efficiency: N/A  
Efficacy: 103.1 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

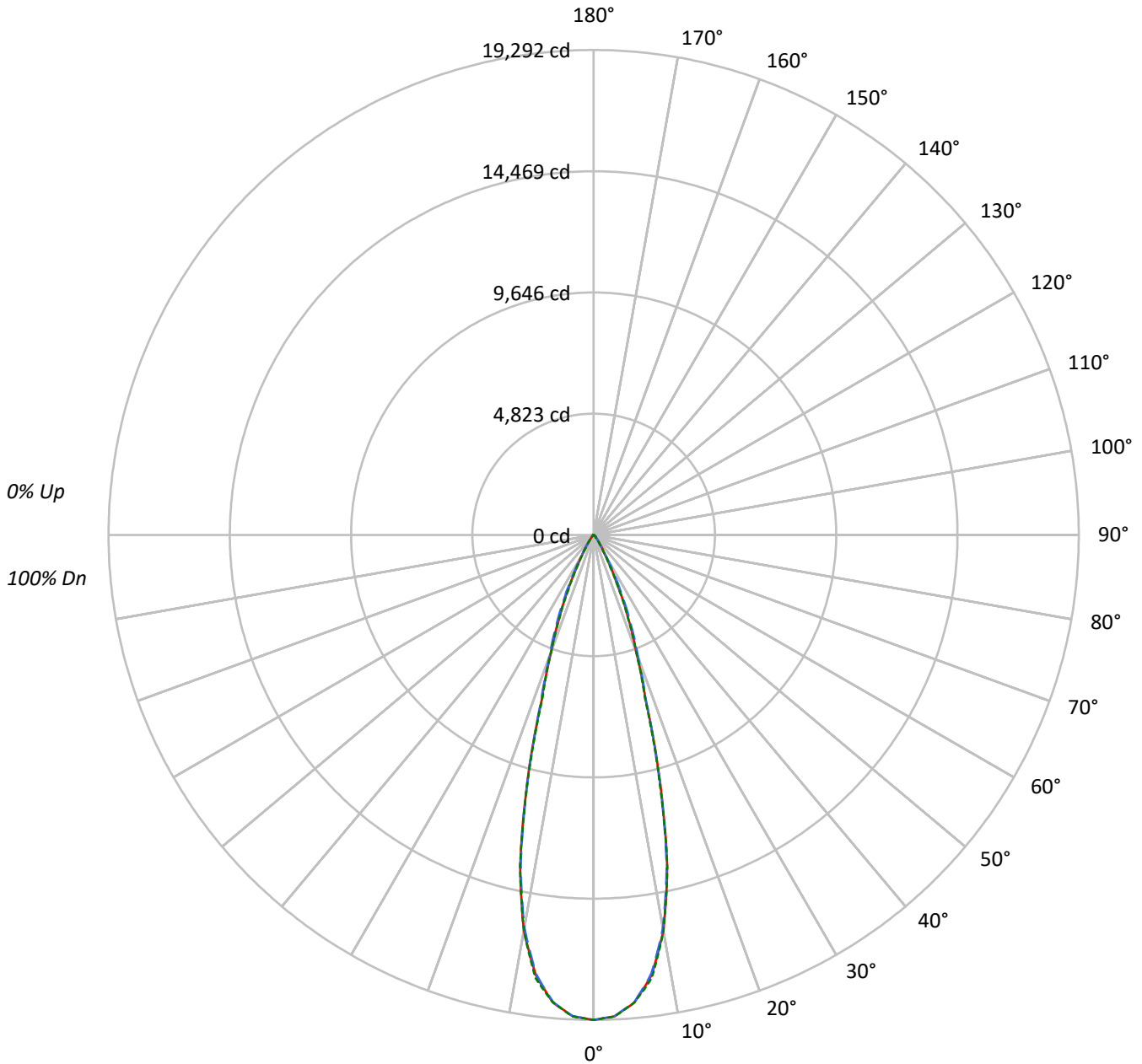
Input Watts (W): 58.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1476668	1476668	1476668
5°	1434270	1432595	1434347
10°	1242297	1233537	1242002
15°	810535	806184	802135
20°	403043	418161	402506
25°	203024	228944	198869
30°	81287	88570	70823
35°	37704	36106	30266
40°	16277	18076	15328
45°	11485	14256	11583
50°	3953	10372	4168
55°	2269	4297	2402
60°	1592	1883	1592
65°	1032	1032	1032
70°	627	425	627
75°	0	266	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 14256 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1696.4	28.3
10°-20°	2732.1	45.5
20°-30°	1180.6	19.7
30°-40°	269.1	4.5
40°-50°	92.4	1.5
50°-60°	22.6	0.4
60°-70°	5.9	0.1
70°-80°	0.6	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°	5609.2	93.5
0°-40°	5878.2	98.0
0°-60°	5993.2	99.9
0°-90°	5999.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5999.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	19292	19292	19292	19292	19292	
5°	18667	18649	18645	18684	18668	1698
15°	10228	10105	10174	10140	10122	2739
25°	2404	2495	2711	2431	2355	1151
35°	404	412	386	384	324	274
45°	106	132	132	132	107	75
55°	17	18	32	19	18	17
65°	6	6	6	6	6	6
75°	0	0	1	0	0	1
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°	19291.9	19291.9	19291.9	19291.9	19291.9
2.5°	19164.0	19150.7	19158.3	19167.8	19171.6
5°	18666.7	18648.7	18644.9	18683.8	18667.7
7.5°	17663.7	17638.1	17599.3	17687.4	17769.8
10°	15983.4	15955.0	15870.7	15912.4	15979.6
12.5°	13502.8	13410.9	13409.0	13541.6	13523.6
15°	10228.4	10105.3	10173.5	10140.3	10122.4
17.5°	6878.3	6831.0	6921.9	6894.4	6776.0
20°	4948.0	4960.3	5133.6	5046.5	4941.4
22.5°	3610.6	3655.1	3860.6	3636.2	3553.8
25°	2403.9	2494.8	2710.8	2431.4	2354.7
27.5°	1478.5	1520.2	1739.0	1459.6	1417.9
30°	919.7	898.9	1002.1	860.0	801.3
32.5°	603.3	576.8	610.0	547.5	500.1
35°	403.5	412.0	386.4	383.6	323.9
37.5°	251.9	289.8	255.7	272.8	208.4
40°	162.9	210.3	180.9	199.9	153.4
42.5°	133.6	162.0	148.7	158.2	136.4
45°	106.1	131.7	131.7	131.7	107.0
47.5°	58.7	88.1	112.7	90.0	62.5
50°	33.2	44.5	87.1	46.4	35.0
52.5°	22.7	25.6	59.7	26.5	23.7
55°	17.0	18.0	32.2	18.9	18.0
57.5°	13.3	14.2	17.0	14.2	13.3
60°	10.4	10.4	12.3	11.4	10.4
62.5°	7.6	7.6	8.5	7.6	7.6
65°	5.7	5.7	5.7	5.7	5.7
67.5°	2.8	3.8	3.8	3.8	3.8
70°	2.8	1.9	1.9	1.9	2.8
72.5°	1.9	0.9	0.9	0.9	0.9
75°	0.0	0.0	0.9	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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