

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: P767949

Luminaire Tested: LD6D55D010-EU6DR3055659027-6LBS1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P767949  
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-EU6DR3055659027-6LBS1B  
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: 6091.1 lumens  
Efficiency: N/A  
Efficacy: 104.7 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

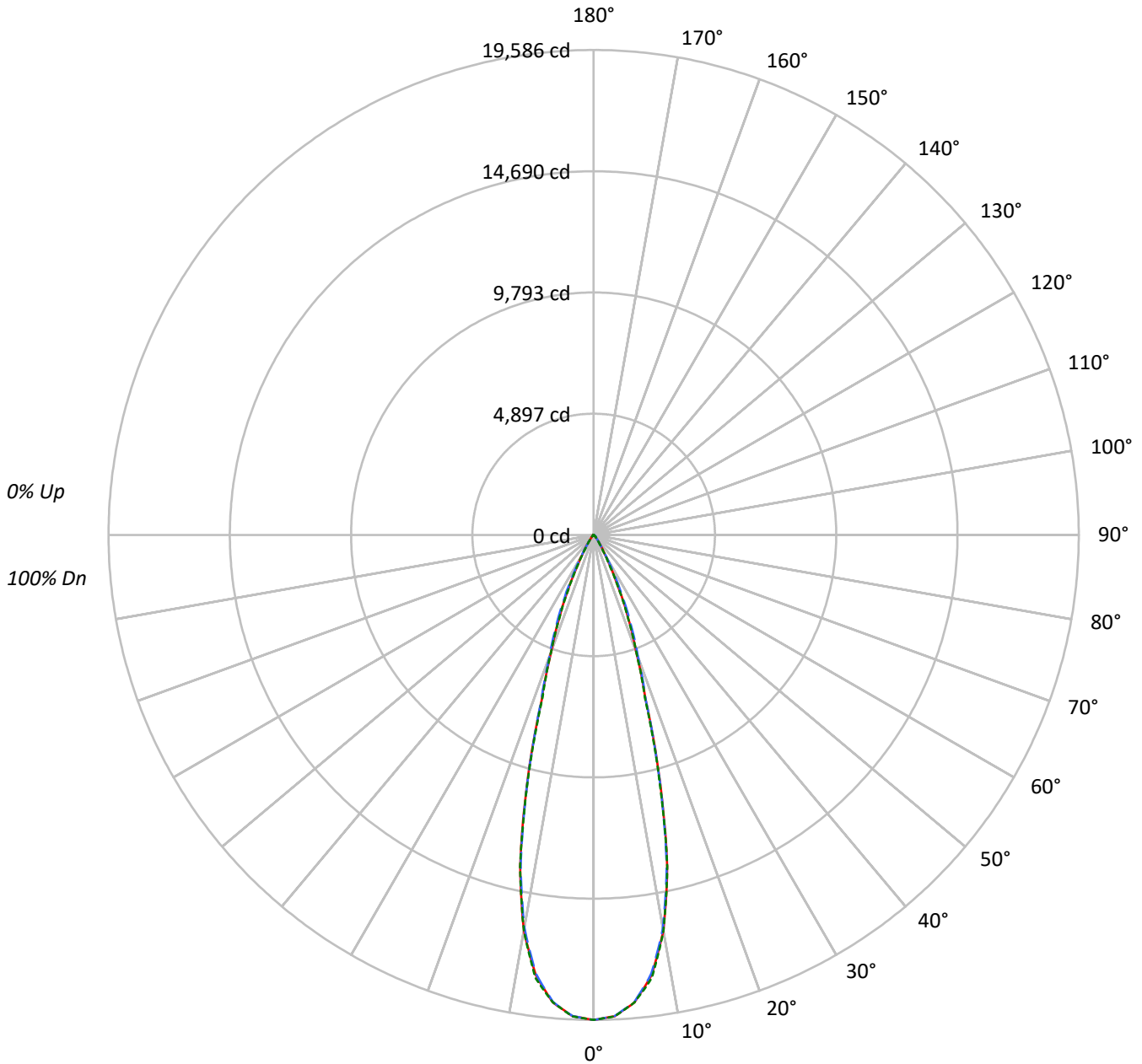
Input Watts (W): 58.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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°	1499164	1499164	1499164
5°	1456130	1454424	1456199
10°	1261231	1252331	1260927
15°	822889	818467	814354
20°	409185	424539	408639
25°	206116	232432	201893
30°	82525	89923	71901
35°	38274	36657	30733
40°	16527	18355	15568
45°	11658	14473	11767
50°	4013	10539	4239
55°	2309	4364	2442
60°	1623	1914	1623
65°	1050	1050	1050
70°	649	425	649
75°	0	296	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 14473 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1722.3	28.3
10°-20°	2773.7	45.5
20°-30°	1198.6	19.7
30°-40°	273.2	4.5
40°-50°	93.8	1.5
50°-60°	22.9	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°	5694.6	93.5
0°-40°	5967.8	98.0
0°-60°	6084.5	99.9
0°-90°	6091.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6091.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	19586	19586	19586	19586	19586	
5°	18951	18933	18929	18968	18952	1724
15°	10384	10259	10328	10295	10277	2781
25°	2440	2533	2752	2468	2390	1168
35°	410	418	392	389	329	278
45°	108	134	134	134	109	76
55°	17	18	33	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°	19585.8	19585.8	19585.8	19585.8	19585.8
2.5°	19456.0	19442.5	19450.2	19459.8	19463.7
5°	18951.2	18932.9	18929.0	18968.5	18952.1
7.5°	17932.8	17906.9	17867.4	17956.9	18040.5
10°	16227.0	16198.1	16112.5	16154.8	16223.1
12.5°	13708.5	13615.3	13613.3	13748.0	13729.7
15°	10384.3	10259.3	10328.5	10294.9	10276.6
17.5°	6983.1	6935.0	7027.4	6999.5	6879.3
20°	5023.4	5035.9	5211.9	5123.4	5016.7
22.5°	3665.6	3710.8	3919.5	3691.6	3607.9
25°	2440.5	2532.8	2752.1	2468.4	2390.5
27.5°	1501.1	1543.4	1765.5	1481.8	1439.5
30°	933.7	912.6	1017.4	873.1	813.5
32.5°	612.5	585.6	619.3	555.8	507.7
35°	409.6	418.3	392.3	389.4	328.9
37.5°	255.8	294.2	259.6	276.9	211.6
40°	165.4	213.5	183.7	202.9	155.8
42.5°	135.6	164.4	151.0	160.6	138.5
45°	107.7	133.7	133.7	133.7	108.7
47.5°	59.6	89.4	114.4	91.4	63.5
50°	33.7	45.2	88.5	47.1	35.6
52.5°	23.1	26.0	60.6	26.9	24.0
55°	17.3	18.3	32.7	19.2	18.3
57.5°	13.5	14.4	17.3	14.4	13.5
60°	10.6	10.6	12.5	11.5	10.6
62.5°	7.7	7.7	8.7	7.7	7.7
65°	5.8	5.8	5.8	5.8	5.8
67.5°	2.9	3.8	3.8	3.8	3.8
70°	2.9	1.9	1.9	1.9	2.9
72.5°	1.9	1.0	1.0	1.0	1.0
75°	0.0	0.0	1.0	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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