

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: P793743

Luminaire Tested: LER6D55D010-EC6DR3055659030-6LBDP1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P793743  
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: LER6D55D010-EC6DR3055659030-6LB DP1B  
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5119.0 lumens  
Efficiency: N/A  
Efficacy: 88.0 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

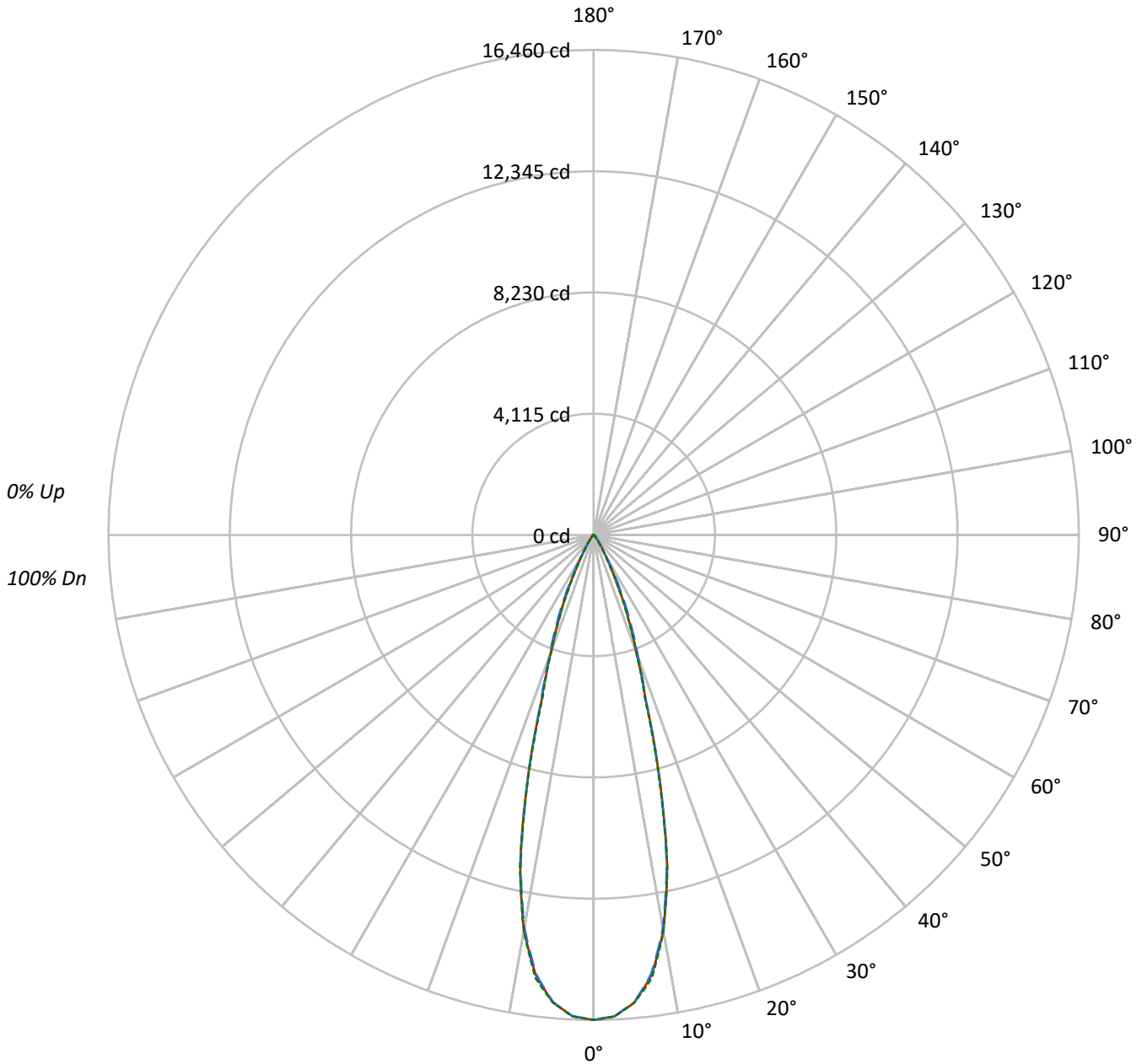
Input Watts (W): 58.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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	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°	1259912	1259912	1259912
5°	1223748	1222319	1223810
10°	1059948	1052471	1059700
15°	691566	687850	684395
20°	343882	356784	343426
25°	173228	195339	169673
30°	69355	75569	60429
35°	32172	30808	25827
40°	13889	15428	13080
45°	9797	12156	9883
50°	3370	8848	3561
55°	1935	3670	2055
60°	1362	1607	1362
65°	869	869	869
70°	537	358	537
75°	0	237	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 12156 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1447.4	28.3
10°-20°	2331.1	45.5
20°-30°	1007.3	19.7
30°-40°	229.6	4.5
40°-50°	78.8	1.5
50°-60°	19.3	0.4
60°-70°	5.0	0.1
70°-80°	0.5	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°	4785.8	93.5
0°-40°	5015.4	98.0
0°-60°	5113.5	99.9
0°-90°	5119.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5119.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	16460	16460	16460	16460	16460	
5°	15927	15911	15908	15941	15928	1449
15°	8727	8622	8680	8652	8637	2337
25°	2051	2129	2313	2074	2009	982
35°	344	352	330	327	276	234
45°	90	112	112	112	91	64
55°	14	15	28	16	15	14
65°	5	5	5	5	5	5
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°	16460.1	16460.1	16460.1	16460.1	16460.1
2.5°	16351.0	16339.7	16346.2	16354.3	16357.5
5°	15926.8	15911.4	15908.2	15941.3	15927.6
7.5°	15070.9	15049.1	15016.0	15091.1	15161.5
10°	13637.3	13613.1	13541.1	13576.7	13634.1
12.5°	11520.8	11442.4	11440.8	11553.9	11538.6
15°	8727.1	8622.0	8680.2	8651.9	8636.6
17.5°	5868.7	5828.3	5905.9	5882.4	5781.4
20°	4221.7	4232.2	4380.1	4305.8	4216.1
22.5°	3080.6	3118.6	3294.0	3102.4	3032.1
25°	2051.1	2128.6	2312.9	2074.5	2009.0
27.5°	1261.5	1297.1	1483.7	1245.3	1209.8
30°	784.7	766.9	855.0	733.8	683.7
32.5°	514.8	492.2	520.4	467.1	426.7
35°	344.3	351.5	329.7	327.3	276.4
37.5°	215.0	247.3	218.2	232.7	177.8
40°	139.0	179.4	154.4	170.5	130.9
42.5°	113.9	138.2	126.9	135.0	116.4
45°	90.5	112.3	112.3	112.3	91.3
47.5°	50.1	75.2	96.2	76.8	53.3
50°	28.3	38.0	74.3	39.6	29.9
52.5°	19.4	21.8	50.9	22.6	20.2
55°	14.5	15.4	27.5	16.2	15.4
57.5°	11.3	12.1	14.5	12.1	11.3
60°	8.9	8.9	10.5	9.7	8.9
62.5°	6.5	6.5	7.3	6.5	6.5
65°	4.8	4.8	4.8	4.8	4.8
67.5°	2.4	3.2	3.2	3.2	3.2
70°	2.4	1.6	1.6	1.6	2.4
72.5°	1.6	0.8	0.8	0.8	0.8
75°	0.0	0.0	0.8	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

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Scaled Data Report



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Scaled Data Report







— 0°-180°    - - 45°-225°    - - - 90°-270°

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(END OF REPORT)