

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: P766402

Luminaire Tested: LD6D45BD010-EU6DR3040509030-6LBS1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P766402  
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: LD6D45BD010-EU6DR3040509030-6LBS1B  
Description: 6 INCH ROUND SHALLOW 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: 4726.0 lumens  
Efficiency: N/A  
Efficacy: 122.1 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

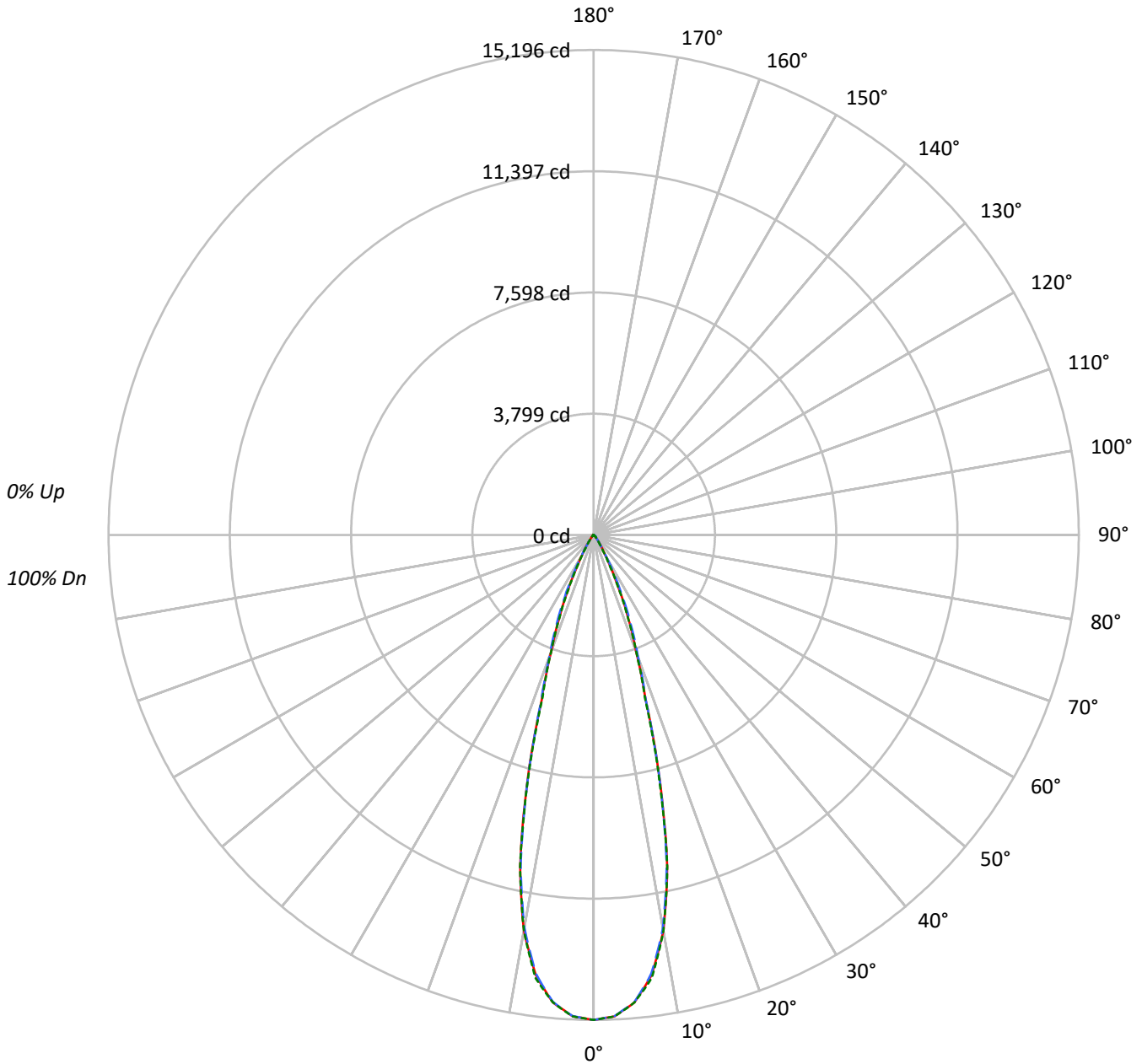
Input Watts (W): 38.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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°	1163192	1163192	1163192
5°	1129801	1128479	1129855
10°	978579	971677	978346
15°	638473	635042	631848
20°	317482	329391	317058
25°	159926	180340	156650
30°	64035	69771	55788
35°	29696	28444	23846
40°	12820	14239	12080
45°	9050	11225	9125
50°	3108	8169	3287
55°	1788	3390	1895
60°	1255	1485	1255
65°	815	815	815
70°	492	336	492
75°	0	207	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 11225 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1336.3	28.3
10°-20°	2152.1	45.5
20°-30°	930.0	19.7
30°-40°	212.0	4.5
40°-50°	72.8	1.5
50°-60°	17.8	0.4
60°-70°	4.6	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°	4418.4	93.5
0°-40°	4630.4	98.0
0°-60°	4720.9	99.9
0°-90°	4726.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4726.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	15196	15196	15196	15196	15196	
5°	14704	14690	14687	14718	14705	1337
15°	8057	7960	8014	7988	7974	2157
25°	1894	1965	2135	1915	1855	906
35°	318	325	304	302	255	216
45°	84	104	104	104	84	59
55°	13	14	25	15	14	13
65°	4	4	4	4	4	4
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°	15196.5	15196.5	15196.5	15196.5	15196.5
2.5°	15095.8	15085.3	15091.3	15098.8	15101.8
5°	14704.1	14689.9	14686.9	14717.5	14704.8
7.5°	13914.0	13893.8	13863.2	13932.6	13997.5
10°	12590.4	12568.0	12501.6	12534.4	12587.4
12.5°	10636.4	10564.0	10562.5	10667.0	10652.8
15°	8057.1	7960.1	8013.8	7987.7	7973.5
17.5°	5418.2	5380.9	5452.5	5430.8	5337.6
20°	3897.6	3907.3	4043.8	3975.2	3892.4
22.5°	2844.1	2879.2	3041.1	2864.3	2799.4
25°	1893.6	1965.2	2135.3	1915.2	1854.8
27.5°	1164.7	1197.5	1369.8	1149.7	1116.9
30°	724.5	708.0	789.4	677.5	631.2
32.5°	475.3	454.4	480.5	431.2	393.9
35°	317.8	324.6	304.4	302.2	255.2
37.5°	198.5	228.3	201.4	214.9	164.1
40°	128.3	165.6	142.5	157.4	120.9
42.5°	105.2	127.6	117.1	124.6	107.4
45°	83.6	103.7	103.7	103.7	84.3
47.5°	46.3	69.4	88.8	70.9	49.2
50°	26.1	35.1	68.6	36.6	27.6
52.5°	17.9	20.1	47.0	20.9	18.7
55°	13.4	14.2	25.4	14.9	14.2
57.5°	10.4	11.2	13.4	11.2	10.4
60°	8.2	8.2	9.7	9.0	8.2
62.5°	6.0	6.0	6.7	6.0	6.0
65°	4.5	4.5	4.5	4.5	4.5
67.5°	2.2	3.0	3.0	3.0	3.0
70°	2.2	1.5	1.5	1.5	2.2
72.5°	1.5	0.7	0.7	0.7	0.7
75°	0.0	0.0	0.7	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)